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MELTING AND BOILING POINT
TABLES.

BY

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THIS WORK

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DEDICATED TO

SIR HENRY ENFIELD ROSCOE, LL.D.,

VICE-PRESIDENT OF THE ROYAL SOCIETY AND PROFESSOR OF CHEMISTRY IN THE VICTORIA UNIVERSITY,

OWENS COLLEGE, MANCHESTER,

BY ONE OF HIS OLD STUDENTS,

IN GRATEFUL REMEMBRANCE OF MUCH KINDNESS AND ENCOURAGEMENT RECEIVED FROM HIM

ON MANY OCCASIONS DURING A PERIOD OF NEARLY SEVENTEEN YEARS.

PREFACE.

More than eleven years ago I commenced an investigation with the object of tracing, if possible, any connection there might exist between the chemical composition and the melting and boiling points of inorganic substances. As the data available for this purpose were extremely meagre, the determination of a large number of melting and boiling points of inorganic bodies became necessary, and this again, on account of the high temperatures required, necessitated the invention of new processes for determining these constants. The results of these investigations, together with the theoretical conclusions deduced therefrom, were published (partly in conjunction with Professor Carleton Williams) in the "Journal of the Chemical Society of London," in the "Philosophical Magazine," and other periodicals. The work, however, soon became so extended as to include organic as well as inorganic substances, and it was with the object of obtaining data for as complete an investigation of this subject as possible, that the compilation of the present tables was commenced. This compilation, which has already taken eight years of almost continuous labour, was in great part completed without any intention of publication, and it was only after the work had been on hand for some years that publication was ultimately decided on.

As is well known, two of the most characteristic properties of substances are the temperatures at which they melt and boil, and indeed, as regards organic compounds, are those properties by means of which these bodies are most easily recognised and their degree of purity ascertained. They are, therefore, almost always the properties to which the chemist first directs his attention when dealing with a new or unknown compound, and their determination consequently becomes of the greatest importance for both theoretical and practical purposes.

It therefore appeared probable that the publication of the enormous mass of data, which had been collected in the Tables, would be a great convenience to chemists, and especially to those working with compounds of carbon. This is more particularly the case, as the data referring to many comparatively rare compounds are extremely difficult to find, whilst those relating to the same substance not unfrequently vary between somewhat wide limits, so that it is very desirable to have all the available data tabulated for comparison, accompanied by references to the original papers.

My object in preparing the Tables has been:—*First.* To present as complete a list as possible of *all* known melting and boiling point data, and at the same time to indicate which of them is probably the most exact when there are several determinations referring to the same substance. *Second.* To state as fully as possible the constitution of each substance to which the data refer. *Third.* To adopt such a system of arrangement as would facilitate, as far as possible, the ready finding of the data relating to any given substance. *Fourth.* To give the authority and reference to

the original memoir in each case. The Tables thus form a catalogue also of the literature referring to most chemical substances. *Fifth.* As but comparatively few chemists have sufficiently large libraries of their own, or can conveniently refer to the original papers in all cases, I have thought it desirable to give in addition the reference (if any) to either Watts' "Dictionary of Chemistry," or to the "Journal of the Chemical Society of London," or both. This is a feature of the work which I believe will be found particularly useful, more especially to British and American investigators.

Such has been my ideal, and though I have spared no pains to carry it out, I am nevertheless fully conscious of many shortcomings, but I believe that those who have occasion to use the Tables will look on them leniently, in consideration of the great labour which has been expended on the compilation, and the extreme difficulty of attaining perfect completeness and consistency in dealing with such an enormous mass of material.

The present is the first of the two volumes in which the Tables are to be published, and contains nearly 19,000 separate melting and boiling point data. The two volumes together will contain about 50,000 data.*

The work is divided into three parts:—

I. Elements and Inorganic Compounds.

II. Organic Compounds.

III. A number of miscellaneous data referring to melting and boiling, such as complete tables of vapour tensions at different temperatures, and of boiling points at different pressures for a considerable number of substances; boiling points of saline solutions; freezing points of cryohydrates, &c. It will also contain lists of the volumes and corresponding years of issue of the more important chemical and physical periodicals, similar to, but much more extensive than those given in Landolt and Börnstein's Tables.

The volume now issued contains Part I. and a portion of Part II., and therefore includes the elements and all inorganic compounds, and those organic compounds which contain not more than three elements. The remaining portion of Part II., including organic compounds of more than three elements, and the whole of Part III. are consequently dealt with in the second volume.

A few remarks are necessary as regards the system of Tabulation:—The main consideration has been so to arrange the material as to render the finding of any given substance as simple and as easy as possible, and consequently with little or no reference to general chemical relationships.

The arrangement for the most part is therefore strictly empirical, and has been attained chiefly by *four* operations:—

* The only other works, so far as I know, which profess to be collections of melting and boiling point data are the following:—

(1) Clarke's *Constants of Nature*. These come down to 1875, and contain 3,150 melting and boiling point data. These Tables deal chiefly with specific gravities.

(2) Rammelsberg's *Handbuch der Krystallographisch-physikalischen Chemie*, 1882. This work relates mainly to crystallography, and contains only 1,150 melting and boiling point data.

(3) Landolt and Börnstein's *Physikalisch-Chemische Tabellen*, 1883. These are general Tables, and refer only to the more common chemical substances. They contain 2,000 melting and boiling point data.

(4) M.M. Richter's *Tabellen der Kohlenstoff-Verbindungen nach deren empirischer Zusammensetzung geordnet*. These come down to May 1883, and are chiefly Tables of the literature referring to carbon compounds. They contain 15,100 melting and boiling point data.

- (1.) Separation into the two great *Departments* of Inorganic and Organic substances.
- (2.) Separation into *Divisions*, according to the number of elements contained in the substance.
- (3.) Separation of each Division into *Groups*, each group containing all those compounds which are composed of the same elements.
- (4.) Arrangement of the compounds in the same group, the plan adopted in the case of organic compounds being necessarily different from that for inorganic substances. The elements are arranged alphabetically, according to the first letter of their symbol, inorganic compounds of the same group are also alphabetically arranged according to the first letter of the symbol of their most positive element. On the other hand, organic compounds belonging to the same group are tabulated according to the number of C-atoms, whilst those containing the same number of C-atoms are arranged according to the number of the atoms of the element following carbon in the formula, and so on. One important result of this arrangement is, that all bodies isomeric with one another are placed together. Minor points in the tabulation are more fully indicated in the "Explanatory Notes," which with the Table of Contents will doubtless prove a sufficient key to the use of the Tables. By means of the above arrangement any substance can be readily found in a few seconds.

As already stated the Tables were at first compiled without any reference to publication, and originally the great bulk of the data were taken from Watts' "Dictionary of Chemistry" and the "Journal of the Chemical Society." When, however, publication was decided on, all such data were checked, when possible, by direct reference to the original memoirs. A small number of the data which were taken from second-hand sources, however, could not be checked, as the original references were not quoted, so that the authorities and references attached to these data are those from which they were actually taken. The references for a few are also entirely wanting; they were among the first collected, and I have not since been able to trace them back to their original sources.

The present volume brings the data down to the Autumn of 1884.

I shall always be greatly obliged to anyone directing my attention to errors or omissions, for I am anxious that the Tables should be as complete and trustworthy as possible.

THOS. CARNELLEY.

University College, Dundee.

June, 1885.

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MELTING AND BOILING POINT TABLES.

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* Organic compounds containing Al, Au, B, Be, Cd, Hg, K, Mg, Na, Pb, Pt, Si, Sn, Ti, Tl, W, Zn, &c., *i.e.*, Elements belonging to Groups other than V., VI., and VII. of Mendeljeff's "Table of the Natural Classification of the Elements," will be found under "Compounds containing Special Elements" at the end of Part II., Vol. II.

EXPLANATORY NOTES.

1. *To find any given substance.* If the substance is an *element* look for it in Part I. under Elements, bearing in mind that the latter are arranged *alphabetically according to the first letter, not of the name, but of the symbol.*

2. If the substance is a *compound* look for it in Part I. or Part II. of the Tables, according as it is an inorganic or organic compound. N.B.—All compounds containing carbon, except metallic carbonates, are included under organic compounds.

3. Knowing the number and nature of the elements which the compound contains, find the group of compounds containing those elements by reference to the Table of Contents, p. ix.

To render this as easy as possible, the elements are first given, then compounds containing two elements, then those containing three, and so on.

(a.) *Inorganic compounds containing two elements* are arranged in groups according to the valency and atomic weight of the negative element, thus, compounds containing a monovalent negative element are placed first, beginning with fluorides, *i.e.*, with the negative monovalent element of lowest atomic weight, then chlorides, next bromides, &c., after which come compounds containing a divalent negative element, beginning with oxides, and following on with sulphides, selenides, &c., and so on.

A similar principle is also adopted in the case of compounds containing more than *two* elements.

(b.) *Organic compounds.* Carbon being the dominating element always heads a formula. Organic compounds containing two elements come first and are arranged in groups according to the valency and atomic weight of the element other than carbon. Thus we begin with those compounds which contain one monovalent element, starting with the compounds of C and H, followed by those of C and Cl, then those of C and Br, C and I; after which we have compounds containing a divalent element, beginning with that with the least atomic weight, and so on.

Organic compounds containing *three* elements are also arranged on a similar principle. Compounds containing C and H and one other element come first, arranged according to the valency and atomic weight of the third element; after which we have the compounds of C and Cl with a third element, arranged according to the valency and atomic weight of this third element; then we have the compounds of C and Br with a third element also arranged in a similar way, and so on.

The same system is also adopted in Volume II., which, when published, will embrace carbon compounds containing more than three elements.

4. Having found, *by means of the Table of Contents*, the group* of compounds to which the substance sought belongs, the latter is easily found, for:—

(a.) *Inorganic compounds in the same group* are arranged alphabetically according to the first letter of the *symbol* of the most positive element.

(b.) *Organic compounds in the same group* are arranged according to the number of carbon atoms. Those compounds containing the same number of carbon atoms are then arranged according to the number of atoms of the element following carbon in the formula, and so on.

Example (1). Suppose diacetoxyanthraquinone, $C_{18}H_{12}O_6$, were required. Being an organic compound containing three elements, we should find by the Table of Contents that it belonged to the IIInd Division of Part II., and further that it belonged to group 5 of this division, which embraces compounds

* *i.e.*, compounds containing the same elements.

containing C, H, and O. This group according to the Table of Contents commences on p. 135. Turning to this page we follow, in the column of formulæ, the arrangement of the C-atoms until we come to those compounds containing 18 atoms of carbon, after which we follow the order of the H-atoms until we come to those compounds containing 18 atoms of carbon and 12 of hydrogen, and finally by following the arrangement of the O-atoms we reach the isomeric compounds of the formula $C_{18}H_{12}O_6$, among which the required compound is readily found.

Example (2). Suppose hydrogen lithium sulphate, $H\text{LiSO}_4$, were required. Being an inorganic compound containing four elements, we should find by the Table of Contents that it belonged to Division IV., Part I.; and further, being a double sulphate, it would belong to group 1 of that division, and hence would be found on p. 37, where it would occur under letter H, that being the first letter of the symbol of hydrogen, which alphabetically comes before lithium, the other variable element in the double sulphate.

5. If a substance contains *water of crystallization* this is *not* taken into account in reckoning the number of elements in a compound. In all other cases of molecular or additive compounds, such as those containing alcohol or benzene of crystallization, picrates, &c., *all* the elements present are reckoned.

6. *Alloys* of metals or of two or more inorganic compounds will be found at the end of Part I., arranged alphabetically by symbols, according to the number of metals or compounds in the alloy.

7. *Polymeric compounds*, the molecular weights of which are known, are always found under the molecular formulæ, and sometimes under both the molecular and empirical formulæ. Polymeric compounds, the molecular weights of which are not known, are found under their empirical formulæ.

8. *Isomeric compounds* are usually arranged according to their chemical relationships, generally as follows:—(1.) Paraffin series. (2.) Olefine series, &c. (3.) Aromatic compounds. (4.) Those of unknown constitution.

Aromatic compounds again are arranged thus:—(1.) Those containing only one ring. (2.) Those containing two rings, as diphenyl. (3.) Naphthalene derivatives. (4.) Anthracene derivatives, &c. And finally aromatic compounds belonging to the same general class are arranged according to the number of side chains they contain, those with only one side chain being placed first.

9. When there are *several data referring to the same substance*, these data are generally arranged in the order of size, and that which is considered to be the most exact is put in *italics*.

10. All *temperatures* are represented on the centigrade scale.

11. All numbers representing pressures are placed in brackets, and all numbers placed in brackets in the boiling point column indicate pressures. All pressures, except when otherwise stated, are in millimetres. Thus 210 (740) in the boiling point column would indicate that the substance boiled at 210°C . under a pressure of 740 m.m., whilst 210 (3 ats.) would mean that the substance boiled at 210°C . under a pressure of 3 atmospheres.

12. As regards *nomenclature* compounds are usually placed under their scientific name, the popular or other alternative name being frequently placed in brackets.

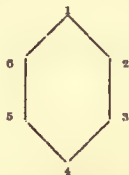
13. If the nature and number of elements in a compound be unknown it will be found under its *name* in the General Index at the end of Vol. II. This index will only include root-compounds, so that if the substance sought be a derived compound the formula of its root-compound must be found from the General Index, from which its own formula may be easily deduced, and thence found in the ordinary way.

14. *Compounds, the formulæ of which have not been determined*, but whose elementary composition is known, are placed at the end of their respective groups.

15. In regard to the *Reference Columns of the Tables*, the page given is usually that upon which a given determination is to be found, but occasionally it is that at which a paper begins. The last column of the Tables gives the reference (if any) to Watts' Dictionary of Chemistry or to the Journal of the Chemical Society of London, and is for the convenience of those who are unable to refer to the original papers.

Remarks on the Notation Employed.

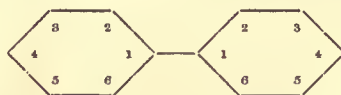
16. As a rule the orientation of the side-chains in benzene derivatives is represented by numerals, which are always used in the order:—



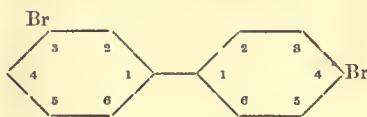
The term *ortho*- is always applied to the positions 2 and 6 in relation to position 1.

„ *meta*- „ „ 3 and 5 „ „
 „ *para*- „ „ 4 „ „

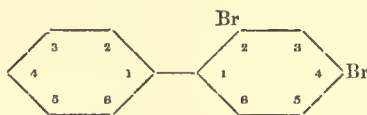
17. In the case of *diphenyl* the position of the side-chains is indicated as follows:—The C-atoms uniting the two rings are each known as 1, the other C-atoms being numbered as in the case of benzene, thus:—



A semicolon (;) is used to show whether the side-chains are in both or in only one ring. Thus $C_6H_4Br.C_6H_4Br=1.3; 1.4$ would indicate the dibromdiphenyl



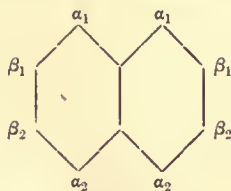
whilst $C_6H_5.C_6H_3Br_2=1.2.4$; or $C_6H_3PhBr_2=1.2.4$ would indicate the dibromdiphenyl



If the complete orientation was undetermined and only the distribution between the two rings known, such a fact would be represented by means of the semicolon.

Thus, $Cl; Cl_3$ would indicate the constitution of a tetrachlordiphenyl, and would mean that one of the chlorine atoms was in one ring and three in the other ring; whilst Cl_4 would mean that all four chlorine atoms were in the same ring. These facts, however, may also be represented by $C_6H_4Cl.C_6H_2Cl_3$ and $C_6H_5.C_6HCl_4$ respectively.

18. In the case of *naphthalene* the positions are represented as follows:—



If the symbols are *followed* by a semicolon, thus:— $\alpha_1\beta_2$; it would indicate that the side-chains were in the same ring; if however the symbols are *separated* by a semicolon, thus:— $\alpha_1; \beta_2$ it would indicate that the substitution had occurred in each ring. The following examples will illustrate the use of this notation in the case of the chlor-derivatives of naphthalene:—

$C_{10}H_6Cl_2=Cl; Cl$ would indicate a di-chlor-derivative in which there was a Cl-atom in each ring, but that their position in the rings was unknown.

$C_{10}H_6Cl_2=Cl_2$; would indicate that both Cl-atoms were in the same ring, but in unknown positions.

$C_{10}H_6Cl_2=\alpha_1\beta_2$; would indicate that both Cl-atoms were in the same ring, and also their position in the ring.

$C_{10}H_6Cl_2=\alpha_1$; β would indicate that there was a Cl-atom in each ring, and that one of these was in the α_1 -position, whilst the other was in one of the two β -positions, but which of the two was unknown.

$C_{10}H_6Cl_2=\beta$ would indicate that the constitution was unknown, except in so far as that one Cl-atom was in a β -position.

$C_{10}H_5Cl_3=Cl_2$; α_1 would indicate that two of the Cl-atoms were in the same ring but in unknown positions, and that the third Cl-atom was in the other ring in the α_1 -position.

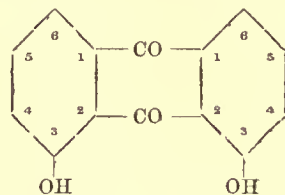
$C_{10}H_4Cl_4=Cl$; Cl would indicate that two of the Cl-atoms were in separate rings but in unknown positions.

$C_{10}H_5Cl_3=\beta_1$; β_1 would indicate a trichloronaphthalene in which one Cl-atom was in the β_1 -position in one ring, the other two Cl-atoms being in the other ring, and that of these one was in one of the β -positions, whilst the position of the other Cl-atom in the ring was unknown.

$C_{10}H_7Cl_5=\alpha_1\alpha_1\alpha_2\beta_1\beta_2$; would indicate a chlornaphthalene tetrachloride, in which all five Cl-atoms were in one ring, two of them being attached to the same C-atom in the α_1 -position.

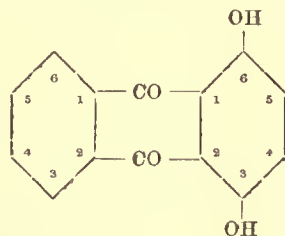
19. In the case of *anthracene* the positions are represented thus:—

The dihydroxyanthraquinone



would be $C_6H_3(OH):(CO)_2:C_6H_3(OH)=3.2.1; 1.2.3$ or $=(1.2.3)_2$.

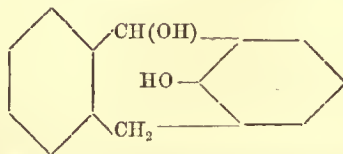
The dihydroxyanthraquinone



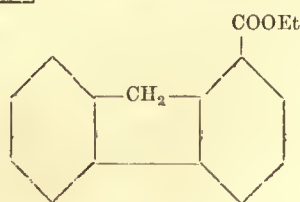
would be $C_6H_4:(CO)_2:C_6H_2(OH)_2=2.1; 1.2.3.6$.

20. A *di-ortho*-compound is indicated by $(1.2)_2$ and a *dipara*- by $(1.4)_2$, and so on.

In indicating the orientation in such a formula as $C_6H_4.CH(OH).C_6H_3(OH).CH_2=2.1; 1.2.3$, the side-chains are taken strictly in the order in which they occur on the horizontal line, so that the above would represent the compound—



Finally such a formula as $C_6H_4.CH_2.C_6H_3.COOEt=(1.2)_2.3$ would represent the compound—



LIST OF ABBREVIATIONS.

- a. = *above*. When placed before a number it indicates that the substance melts or boils above that temperature. If placed before the symbol of an element or compound it indicates that the substance melts or boils at a higher temperature than that element or compound.
- abt. = *about*, and indicates that the temperature to which it is attached is only approximate.
- Ac. = *acetyl* = $\text{C}_2\text{H}_3\text{O}$, i.e., CH_3CO .
- a. f. = *after fusion*, and indicates that the determination has been made with a sample of the substance which has been fused and allowed to solidify.
- a. s. = *after sublimation*, and indicates that the determination has been made with some of the substance after sublimation.
- ats. = *atmospheres*, and refers to pressures.
- b. = *below*, and indicates that the substance melts or boils below the temperature before which it is placed. If placed before the symbol of an element or compound it indicates that the substance melts or boils at a lower temperature than that element or compound.
- b. p. = *boiling point*.
- Bu = *butyl* = C_4H_9 , without indicating the constitution of the butyl radicle.
- Bu^a = *normal butyl* = $(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2)-$
- Bu^b = *isobutyl* = $(\text{CH}_3)_2\text{CHCH}_2-$
- Bz = *benzoyl* = $\text{C}_7\text{H}_5\text{O}$ = $(\text{C}_6\text{H}_5\text{CO})-$
- c. $\left\{ \begin{array}{l} = \text{corrected, when placed after a number.} \\ = \text{condenses, when placed before a number in the boiling point column, and indicates that the substance condenses to a liquid at that temperature.} \end{array} \right.$
- calcd. = *calculated*.
- cond. = *condenses*, see c.
- cor. = *corrected*.
- c. p. = *critical pressure*.
- cryst. = *crystallizes* or *crystalline*.
- c. t. = *critical temperature*.
- d. = *decomposes*, and when placed *after* a number indicates that the substance melts or boils at that temperature with decomposition; but when placed *before* a number it indicates that the substance decomposes at that temperature, without any reference as to whether it boils or melts.
- d. a. = *decomposes above*, and is employed like *d.* (q.v.).
- d. b. = *decomposes below*, *ibid.*
- (d. p.) = *diminished pressure*, and indicates that the boiling point to which it is attached was determined under diminished pressure.

d. w. m. = *decomposes without melting*, at the temperature before which it is placed.

Et = *ethyl* = C_2H_5 .

f. m. = *freezing mixture*.

Fr. or fr. = *from*.

Ht. or ht. = *heat*, thus, red ht. = red heat.

(i. v.) = *in vacuo*.

L. or l. = *liquid*, and when placed before a number indicates that the substance remains liquid at that temperature, thus, l. -10 means "remains liquid at -10 " and *not* "liquifies at -10 ."

l. a. = *liquid above*, and indicates that the substance is a liquid above the temperature before which it is placed.

l. f. m. = *liquid in a freezing mixture*, and indicates that the substance remains liquid when placed in a freezing mixture of salt and ice.

m. = *meta-*

m. a. = *much above*, and when placed before a number indicates that the substance boils or melts much above that temperature.

m. b. = *much below*, and is employed with a similar signification to *m. a.*

Me = *methyl* = CH_3 .

m. p. = *melting point*.

n. f. = *non-fusible*, and when placed before a number indicates that the substance is not fusible at that temperature.

n. v. = *non-volatile*.

o. = *ortho-*

(o. p.) = *ordinary pressure*.

o. t. = *ordinary temperature*.

p. = *para-*

p. d. = *partly decomposed*, and when placed *after* a number indicates that the substance boils or melts at that temperature with partial decomposition; but when placed *before* a number it indicates that the substance is partly decomposed at that temperature, without any reference to boiling or melting.

Ph = *phenyl* = C_6H_5 .

Pr = *propyl* = C_3H_7 , without indicating the constitution of the radicle.

Pr^a = *normal propyl* = $CH_3.CH_2.CH_2-$

Prⁱ = *isopropyl* = $(CH_3)_2CH-$

r. = *reduced*, and when placed after a number shows that the pressure which that number indicates has been reduced to $0^\circ C$.

r.s. = *resolidifies*.

s. = *solidifies*, indicating when placed before a number that the substance solidifies at that temperature.

s. a. $\left\{ \begin{array}{l} = \textit{slightly above}, \text{ when placed in the boiling point column.} \\ = \textit{solidifies above}, \text{ when placed in the melting point column.} \end{array} \right.$

s. b. $\left\{ \begin{array}{l} = \textit{slightly below}, \text{ when placed in the boiling point column.} \\ = \textit{solidifies below}, \text{ when placed in the melting point column.} \end{array} \right.$

sb. = *sublimes*, and indicates that the substance sublimes at the temperature before which it is placed.

s. d. = *slightly decomposed*, and indicates that the substance melts or boils at the temperature before which it is placed with slight decomposition.

sf. = *softens*, and indicates that the substance softens at the temperature before which it is placed.

s. f. m. = *solidifies in a freezing mixture* of salt and ice.

- s. t. = *in a sealed tube*, and indicates that the melting point to which it is attached was determined in a sealed tube.
- w. m. = *sublimes without melting*, and when placed before a number indicates that the substance sublimes at that temperature without melting.
- n. c. = *uncorrected*.
- v. = *volatile, volatilizes*.
- v. a. = *volatile above*.
- v. b. = *volatile below*.
- vol. liq. = *volatile liquid*.
- v. t. = *vapour tension*.
- + placed *after* a number in the melting point column means that the substance melts *slightly above* that temperature.
- [+] or [-] when placed in either the "name" or "constitution" column indicates that the substance is active towards polarized light. [+] that it turns the plane to the right, and [-] that it turns the plane to the left.

CATALOGUE OF REFERENCE LITERATURE

(WITH ABBREVIATIONS).

Two numbers only affixed in either of the reference columns indicate the "Journal of the Chemical Society of London" or "Watts' Dictionary of Chemistry;" in the latter case the number of the volume is given in Roman type. Thus, vii., 206 would mean p. 206 of the 7th volume of the Dictionary, whilst 25, 310 would mean p. 310 of the 25th volume of the Journal of the Chemical Society.

The following abbreviations are employed in other cases :—

- | | | | |
|--------------|----|----|--|
| A. | .. | .. | <i>Annalen der Chemie und Pharmacie.</i> Ed. by Wöhler and Liebig; afterwards by Wöhler, Liebig, and Kopp, and later by Wöhler, Hofmann, Kekulé, Erlenmeyer, and Volhard, 1832-84; 226 vols. (Liebig's Annalen.) (Leipzig and Heidelberg.) |
| A. C... | .. | .. | <i>Annales de Chimie et de Physique.</i> Ed. by Chevreul, Dumas, Boussingault, Wurtz, Berthelot, and Pasteur, 1789-1884. 1st series, 96 vols.; 2nd series, 75 vols.; 3rd series, 69 vols.; 4th series, 30 vols.; 5th series, 30 vols. (Paris.) |
| A. C. J. | .. | .. | <i>American Chemical Journal.</i> Ed. by Remsen, 1879-84; 6 vols. (Baltimore.) |
| A. C. P. | .. | .. | See A. C. |
| A. I. V. | .. | .. | <i>Atti del R. Istituto Veneto.</i> |
| A. J. S. | .. | .. | <i>American Journal of Science and Arts.</i> Ed. by Silliman. |
| An. | .. | .. | " <i>Analyst, including the Proceedings of the Society of Public Analysts.</i> " Ed. by Wigner and Muter, 1876-84; 9 vols. (London.) |
| Ann. Phil. | .. | .. | " <i>Annals of Philosophy, or Magazine of Chemistry, Mineralogy, &c.</i> " Ed. by Thomson, 1813-20; 16 vols. New series. Ed. by Phillips, 1821-26; 12 vols. (London.) |
| A. P. | .. | .. | <i>Archiv. für Pharmacie.</i> Ed. by Trier, 1844-80; 37 vols. (Kjøbenhavn.) |
| As. | .. | .. | <i>Supplement to Annalen der Chemie und Pharmacie</i> (q.v.), 1861-72; 8 vols. |
| A. S. C. A. | .. | .. | <i>Annales de la Societa Cientifica Argentina.</i> |
| A. S. S. B. | .. | .. | <i>Annales de la Société Scientifique de Bruxelles</i> , 1877- |
| B. | .. | .. | <i>Berichte der Deutschen Chemischen Gesellschaft zu Berlin</i> , 1868-84; 17 vols. |
| B. A. B. | .. | .. | <i>Bulletin de l'Académie Belgique</i> (Brussels). |
| B. A. R. | .. | .. | <i>British Association Reports</i> , 1833-84 (London). |
| B. A. St. P. | .. | .. | See B. P. |
| B. B. | .. | .. | <i>Bulletins de l'Académie Royale de Science de Bruxelles</i> (Brussels). |
| B. C. | .. | .. | <i>Biedermann's Central-Blatt.</i> |
| B. J. | .. | .. | <i>Berzelius Jahresbericht</i> , 1822-51; 30 vols. (Tübingen.) |
| B. M... | .. | .. | <i>Berlin Monatschrift</i> (?). |

- B. P. *Bulletin de l'Académie Impériale des Sciences de St. Pétersbourg.*
- B. S. or B. S. C. . . *Bulletin de la Société Chimique de Paris*, 1859-84; 40 vols.
- C. *Il Cimento, giornale di Fisica, Chimica, e Storia Naturale.*
- C. C. *Chemisches Central-Blatt* (Leipzig).
- C. C. P. *Chemical Physics.* By Josiah Cooke, 1860 (Boston).
- C. E. T. *Clarke's Engineers' Tables.*
- C. G. or Chem. Gaz. . . *Chemical Gazette.* Ed. by Francis, 1842-47; 5 vols. (London.)
- C. N. *Chemical News.* Ed. by Crookes, 1860-84; 50 vols. (London.)
- Co. C. *Comptes Chimiques.*
- C. R. *Comptes Rendus hebdomadaires des Séances de l'Académie des Sciences*, 1835-84; 99 vols. (Paris.)
- C. S. M. or C. S. Mem. *Chemical Society's Memoirs* (London). N.B.—In the Tables these are generally included in the Journal of the Chemical Society.
- D. P. *Polytechnisches Journal.* Ed. by Dingler, and afterwards by Zeman and Fischer, 1820-84; 254 vols. (Augsburg.)
- E. N. *The Edinburgh New Philosophical Journal.* Ed. by Jameson, 1826.
- Erd. J. *Journal für praktische Chemie.* Ed. by Erdmann (afterwards by Kolbe), 1834-69; 108 vols. (Leipzig.) (See J. p.)
- G. A. See Gilb. Ann.
- Ger. Pharm. *German Pharmacopœia.*
- G. H. *Text-book of Organic Chemistry.* By Strecker-Wislicenus, translated by Greenaway and Hodgkinson, 1881 (London).
- G. I. *Gazzetta Chimica Italiana*, 1871-84 (Palermo).
- Gilb. Ann. *Annalen der Physik.* Ed. by Gilbert, 1799-1824; 76 vols. (Halle and Leipzig.)
- G. J. C. *Jahresbericht über die Fortschritte der Chemie.* Ed. by Fittica (Giessen). N.B.—Some few data have been entered by mistake under G. J. C. instead of under J.
- Gm. *Gmelin's Handbook of Chemistry*, translated by Watts (London).
- Gm. Kr. *Gmelin-Kraut Hand-buch der Chemie.*
- G. P. *Ganot's Physics*, translated by Atkinson, 1881 (London).
- G. S. P. *Giornale di Scienze Nat. ed. econom. di Palermo.*
- G. T. *Gerhardt's Traité de Chimie* (Paris).
- Handw. *Handwörterbuch der Chemie.* By (?).
- I. D. *Inaugural Dissertation* (followed by name of University and date).
- J. *Jahresbericht über die Fortschritte der Chemie.* By Liebig and Kopp, afterwards by Kopp and Will (Giessen). N.B.—Some few data have been entered by mistake under J. instead of under G. J. C.
- J. F. P. See J. p.
- J. p. or J. p. C. . . . *Journal für praktische Chemie.* Ed. by Kolbe, 1870-84; 30 vols. (Leipzig.) See Erd. J.
- J. P. or J. Ph. *Journal de Pharmacie et de Chimie* (Paris).
- J. p. Ph. *Jahresbericht für Pharmacie.*
- J. R. or J. R. C. S. . . *Journal of the Russian Chemical Society.*
- J. Z. or J. Z. N. . . . *Jenaische Zeitschrift für Medicin und Naturwissenschaft*, herausg. v. der Medicinisch-Wissenschaftlichen Gesellschaft zu Jena. Commences, 1864. (Leipzig.)
- K. D. M. *Knight's Dictionary of Mechanics* (London).
- K. L. *Kekulé's Lehrbuch der Organischen Chemie.*
- L. *The Laboratory, a Weekly Record of Scientific Research*, Vol. I., 1867 (London).

- L. B. J. *Leonhard and Brown's Jahrbuch.*
 Lehrb. See K. L.
 L. V. S. or Lw. *Landswirthschaft Versuchs-Stationen.*
 M. A. A. *Memoirs of the American Academy of Arts and Sciences* (Boston).
 M. A. S. *Mémoires de l'Académie des Sciences* (Paris).
 M. C. *Wiener Monatshefte, Sitzungsberichte der Mathematisch-naturwissenschaftlichen Klasse der Academie der Wissenschaft zu Wien.*
 M. C. M. *Mott's Chemists' Manual*, 1877 (New York).
 Mem. A. A. See M. A. A.
 M. P. *Proceedings of the Manchester Literary and Philosophical Society* (Manchester).
 N. *Nature, a Weekly Journal of Science*, 1870-84 (London).
 N. B. A. *N. Br. Arch.* (?).
 N. C. *Nuovo Cimento* (?).
 N. H. C. *Neues Handwörterbuch der Chemie* (?).
 N. J. or Ni. J. *Journal of Natural Philosophy.* Ed. by Nicholson, 1802-13; 34 vols. (London.)
 N. J. P. *Neues Jahresbericht der Pharmacie.*
 N. J. T. *Neues Journal v. Trommsdorff.*
 N. R. P. *Neues Rep. Pharm.*
 O. O. C. *Odling's Outlines of Chemistry*, 1870 (London).
 P. A. *Annalen der Physik und Chemie.* Ed. by Poggendorff, 1824-77 (Leipzig).
 P. A. B. See B. P.
 P. A. eb. *Poggendorff's Annalen Ergänzungsband.* See P. A.
 P. J. or P. J. T. *Pharmaceutical Journal and Transactions* (London).
 P. M. *Philosophical Magazine*, 1798-1884 (London).
 P. R. or P. R. S. *Proceedings of the Royal Society of London*, 1832-84.
 P. R. S. E. *Proceedings of the Royal Society of Edinburgh.*
 P. T. *Philosophical Transactions of the Royal Society of London*, 1781-1884.
 Q. J. S. *Quarterly Journal of Science*, 1816-31 (Royal Institution, London).
 R. *Répertoire de Chimie pure.* Ed. by Ad. Wurtz, 1859-62 (Paris).
 R. A. T. *Atti della R. Accademia delle Scienze, Torino*, 1865-
 R. C. P. See R.
 R. K. T. *Richter's Tabellen der Kohlenstoff-Verbindungen*, 1884 (Berlin).
 R. P. *Repertorium für die Pharmacie.* Ed. by Gehlen, and afterwards by Buchner.
 R. S. *Revue Scientifique* (Paris).
 R. T. *Recueil des travaux Chimiques des Pays-Bas.*
 S. J. See A. J. S.
 Sch. J. or Sw. J. *Journal für Chemie und Physik.* Ed. by Schweigger, 1811-33; 69 vols. (Nürnberg and Halle.)
 T. C. *Roscoe and Schorlemmer's Treatise on Chemistry* (London).
 T. E. *Transactions of the Royal Society of Edinburgh.*
 U. P. *L'Union Pharmaceutique* (?).
 V. p. P. *Vierteljahrs pr. Pharmacie* (?).
 W. *Annalen der Physik und Chemie.* Ed. by Wiedemann, 1877-84; 23 vols. (Leipzig.)
 W. A. *Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften zu Wien. Math. Natw. Classe*, 1848-84; 90 vols. cf. M. C.
 W. A. C. P. See W.
 W. A. C. P. B. See W. B.
 W. B. *Beiblätter der Annalen der Physik und Chemie.* Ed. by Wiedemann (Leipzig).

PART I.

ELEMENTS AND INORGANIC COMPOUNDS.

I. ELEMENTS.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Silver	Ag	....	916	Deville	B., 12, 791	
"	"	916	Becquerel	G. J. C., 1863	
"	"	940	Deville	C. R., 90, 773	
"	"	954	Violle	C. R., 85, 543	34, 106
"	"	954	Erhard & Schertel	W. A. P. C. B. [1879], 348	
"	Commercial	"	....	960	Ledebur	Wied. Beibl., 5	
"	"	960	Becquerel	A. C. P., 68, 73	
"	"	977	Pictet	P. M. [1879], 446	
"	"	982	Bloxam	"Metals," 10	
"	"	999	Princeps	P. T., 1828, 94	v., 277
"	"	1000	Quincké	P. A.	vii., 242
"	"	1000	Pouillet	....	v., 277
"	"	1000	Person	A. C. P. [3], 27, 250	iii., 77
"	"	1023	Plattner	Paul's Chem. Industry, 562	iii., 955
"	"	1024	Daniell	P. T. [1830], 237	
"	"	1032	Wilson	F. d. P., 8, 425	
"	"	1034	Guyton-Morveau	....	v., 277
"	Pure	"	....	1040	Riemsdyk	C. N., 20, 32	
"	"	Vaporizes at 1400	....	Troost and Haute-feuille	C. R., 84, 946	32, 273
"	"	a. 1570	....	Meyer	B., 12, 1428	
"	"	1870 calculated	....	Wiebe	B., 12, 791	
Aluminium	Al	....	600	Pictet	C. R., 88, 1317	
"	"	abt. 700	Heeren	G. J. C., 1855	
"	"	850	Van der Weyde	K. D. M.	
"	"	a. 891	(?)	(?)	(?)
"	"	Non-volatile at a white heat	Between Zn and Ag, but nearer to Zn than Ag	Deville	G. J. C., 1854	i., 153
Arsenic	As	Volatilizes at 180	....	Mott	M. C. M., 43	
"	Under pressure	"	....	a. 500	Landolt	G. J. C., 1859	
"	"	Fuses between the m. p. of Sb and Ag	Mallet	G. J. C., 1872	
"	"	Sublimes 449-450	....	Conechy	G. J. C., 1880	
Gold	Au	....	1035	Violle	C. R., 89, 702	38, 150
"	"	1037	Becquerel	G. J. C., 1863	
"	"	1037	Deville	B., 12, 791	
"	"	1045	Violle	C. R., 92, 866	40, 669
"	"	1075	"	C. R., Oct., 1879	
"	"	1075	Erhard & Schertel	W. A. C. P. B. [1879], 348	
"	"	1092	Becquerel	A. C. P., 68, 73	
"	"	1093	Bloxam	"Metals," 10	
"	"	1100	Pictet	P. M. [1879], 446	
"	"	1102	Plattner	Paul's Chem. Industry, 562	iii., 954
"	"	1102	Van der Weyde	K. D. M.	
"	"	1144	Daniell	P. T. [1830], 237	
"	"	1200	Pouillet	....	ii., 926
"	"	1200	Quincké	P. A.	vii., 242
"	"	1200	Kustel	C. C. [1882], 783	44, 691
"	Pure	"	....	1240	Riemsdyk	C. N., 20, 23	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Gold	Au	....	1250	Pouillet	Dixon's "Heat," 128	
"	"	1250	Van der Weyde	K. D. M.	
"	"	1380	Guyton-Morveau	....	ii., 926
"	"	1425	Daniell	....	"
"	"	2240 calculated	....	Wiebe	B., 12, 791	
Boron	B	....	300 (!)	Mott	M. C. M.	
"	"	Above a white heat	Roscoe and Schorlemmer	T. C., i.	i., 627
"	Adamantine	"	....	Not in oxygen blowpipe	....	....	i., 629
"	"	Fuses at an intense heat	Odling	O. O. C.	
"	"	Fuses in the electric arc	Depretz	G. J. C., 1849	
Barium	Ba	....	450	....	....	iii., 936
"	"	475	Van der Weyde	K. D. M.	
"	"	Above Ca and Sr	Frey	A., 183, 368	31, 689
"	"	<i>Appears to fuse above the melting point of cast iron</i>	"	G. J. C., 1876	
"	"	Less volatile than Sr or Ca	....	Mallet	30, 357	
"	"	Non-volatile at red heat	b. redness	....	....	i., 501
Beryllium	Be	....	Melts above the point at which NaCl is readily volatilized	Nilson and Petterssen	C. R., 1878	
"	"	b. Ag	Debray	G. J. C., 1855	ii., 849
Bismuth	Bi	....	256	Cooke	C. C. P., 548	
"	Commercial	"	....	260	Ledebur	Wied. Beibl., 5	
"	"	260	Van der Weyde	K. D. M.	
"	"	262	Pouillet	C. E. T.	
"	"	264	....	....	i., 591
"	"	265	Quincké	P. A.	vii., 242
"	"	266.8	Person	G. J. C., 1847	
"	"	268.3	Rudberg	J., i., 71	
"	"	268.3	Riemsdyk	C. N., 20, 32	
"	"	270.5	Person	A. C. P. [3], 27, 250	iii., 77
"	"	Between the melting points of Cu and Ni, i.e., 1090-1450	Carnelley & Carleton Williams	35, 565	
Bromine	Br	....	Solidifies at -25	Liebig	B., 12, 1424	
"	According to Baumhauer the presence of water raises the m. p., and this accounts for the higher numbers of other observers	"	....	-24.5	Baumhauer	B., 4, 927	25, 220

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Bromine	Br	....	Solidifies at -22, and does not remelt at -12	....	....	i., 676
"	"	-21	Quincké	P. A.	vii., 242
"	"	Solidifies at -20	"	B., 12, 1424	
"	"	Solidifies at -19	Serullas	"	
"	"	-18	Balard	B., 4, 927	vii., 210
"	"	-12.5	Pierre		
"	"	-12	Mott	M. C. M.	i., 676 ; iii., 936
"	"	-7.7	Pierre	B., 12, 1424	38, 215
"	"	-7.32	Regnault	"	"
"	"	-7.3	Gorup Besanez	B., 4, 927	
"	"	Solidifies at -7.2	Philipp	B., 12, 1424	38, 215
"	"	45	....	Löwig	....	i., 676
"	"	47	....	Balard	A. C. P. [2], 32, 337	
"	"	58	....	Andrews	P. A., 75, 335	
"	"	59.27 (760)	....	Thorpe	37, 172	
"	"	59.6 (760)	....	Bolas and Groves	37, 173	
"	"	60 (760)	....	Regnault	M. A. S., 26, 913	iii., 97
"	"	63 (760)	....	Pierre	A. C. P. [3], 20, 5	iii., 84
"	"	63 (760)	....	Stas	G. J. C., 1865	
Carbon	C	10,000 or not higher	....	Dewar	P. M. [4], 44, 464	28, 239
Calcium	Ca	Boils a. zinc	Fuses	Roscoe and Schor- lemmer	T. C., ii., 189	
"	Full red heat	....	C. E. T.	
"	"	More volatile than Sr and Ba	....	Mallet	30, 357	
"	"	Bright red heat	Matthiessen	G. J. C., 1855	
"	"	Non-volatile	...	Caron	G. J. C., 1860	
Cadmium	Cd	....	228	Van der Weyde	K. D. M.	
"	"	307	Nies & Winkelmann	P. A. [1881], 13, 68	
"	"	310-320	"	Wied. Ann., 13	
"	"	315-316	B. Wood	....	Watts' Dict.
"	"	320.7	Person	A. C. P. [3], 27, 250	iii., 77
"	"	320	Rudberg	J., 1, 71	
"	"	320	Quincké	P. A.	vii., 242
"	"	320	Riemsdyk	C. N., 20, 32	
"	"	325	Van der Weyde	K. D. M.	
"	"	326	Nies & Winkelmann	P. A. [1881], 13, 68	
"	"	720	Becquerel	G. J. C., 1863	
"	"	746.3	"	A. C. P., 68, 73	38, 606
"	"	763-772	....	Carnelley & Carle- ton Williams	33, 284	
"	"	860	315	Wiebe	B., 12, 1762	38, 88
"	"	860	....	Deville and Troost	J., 12, 25	iii., 84
"	"	860	abt. 315	Ditte	C. R., 73	24, 795
Cerium	Ce	....	Fuses b. Ag, but con- siderably a. Sb	Hillebrand & Norton	P. A., 156, 471	30, 276

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Chlorine		Cl	....	-75	Berthelot	B. S. C., 29, 3	34, 263
"		"	-33·6 (760)	....	Regnault	J., 16, 70; M.A.S., 26, 658	iii., 135; vi., 436
"		"	-33·6	....	Jahn	M. C., 3, 176	42, 795
"		"	Liquifies at -34 (ord. press.)	....	Loir and Drion	B. S. C., 1850	vi., 436
"		"	Liquifies at -50 (ord. press.)	....	"	"	"
"		"	Condenses at 15·5 (4 ats.)	....	....	....	i., 901
"		"	Liquifies at 0° (6 ats.)	....	Niemann	....	vi., 436
"		"	Liquifies at 12·5 (8·5 ats.)	....	"	....	"
"		"	Is a liquid -at 102	Solidifies a little b. -102	Olszewski	M. C., 5, 127	46, 816
Cobalt		Co	....	1371	Knight	K. D. M.	
"		"	....	1500	Pictet	C. R., 88, 1317	
"		"	....	1800	Van der Weyde	K. D. M.	
"		"	....	Fuses at highest temperature of forge	Clarke	C. E. T.	
"		"	....	More easily than Fe, less easily than Au	....	....	i., 1041
Chromium		Cr	....	Does not fuse in the forge, but softens and agglomerates	Clarke	C. E. T.	
"		"	....	Melts above Pt	Deville	G. J. C., 1856.	
Cæsium		Cs	....	26-27	Setterberg	B., 15, 526 A., 211, 100	42, 465
Copper		Cu	....	950	Van der Weyde	K. D. M.	
"		"	....	a. 1000	Roberts & Wrightson	P. M. [5], 13, 361	
"		"	....	1000-1200	Pouillet	G. J. C., 1836	
"		"	....	1032	Violle	C. R., Oct., 1879	
"		"	....	1050	Pictet	P. M. [1879], 446	
"		"	....	1054	Violle	C. R., 89, 702	38, 150
"		"	....	1088	Bloxam	"Metals"	
"		"	....	1090	Quincké	P. A.	vii., 242
"		"	....	1091	Daniell	P. T. [1830], 237	
"		"	....	1093	Knight	K. D. M.	
"		"	....	1100	Erhard & Schertel	W. A. P. C. B. [1879], 348	
"	Commercial	"	....	1100	Ledebur	Wied. Beibl., 5	
"		"	....	1132	Daniell		
"		"	....	1157	Becquerel	G. J. C., 1863	
"		"	....	1200 (?)	....	....	iii., 936
"		"	....	1200	Braun	P. A., 154, 161	29, 504
"		"	....	1207	Guyton-Morveau	....	ii., 39
"		"	....	1236	Wilson	F. d. P., 8, 425	
"	Pure	"	....	1330	Riemsdyk	C. N., 20, 32	
"		"	....	1398	Daniell	....	ii., 39

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Didymium ....	....	Di	....	Melts higher than Ce or La	Hillebrand & Norton	G. J. C., 1875	
Iron	White, cast	Fe	....	1250	Van der Weyde	K. D. M.	
" ....	"	"	....	1050-1100	Pouillet	G. J. C., 1836	
" ....	"	"	....	1050-1100	Gruner	G. J. C., 1874	
" ....	"	"	....	1075	Ledebur	Wied. Beibl., 5, 650	
"	Grey, cast	"	....	1100-1200	Pouillet	G. J. C., 1836	
" ....	"	"	....	1200	Quincké	P. A.	vii., 242
" ....	"	"	....	1200	Gruner	G. J. C., 1874	
" ....	"	"	....	1275	Ledebur	Wied. Beibl., 1881	
" ....	"	"	....	1600	....	....	iii., 329
"	Cast	"	....	1530	Knight	K. D. M.	
"	Steel	"	....	1300-1400	Pouillet	G. J. C., 1836	
" ....	"	"	....	1350-1400	Gruner	G. J. C., 1874	
" ....	"	"	....	1800	....	....	v., 427
"	Cast steel	"	....	1375	Ledebur	G. J. C., 1881	
"	English hammered iron	"	....	1500-1600	Pouillet	C. R., 2	iii., 326
" ....	....	"	....	1600	Pictet	P. M. [1879], 446	
"	Pure bar	"	....	1600	Van der Weyde	K. D. M.	
"	Wrought	"	....	1804	Knight	"	
" ....	"	"	....	2000	Scheerer	....	iii., 326
" ....	"	"	....	2204	Bloxam	"Metals"	
" ....	"	"	....	Highest heat of forge	Clarke	C. E. T.	
"	Pure	"	....	1587	Daniell	P. T., 1830	
Glucinum (see Beryllium) ....	....	Gl (see Be)	....			
Gallium ....	....	Ga	....	29.5	Boisbaudran	C. R., 72, 1076	30, 484
" ....	....	"	....	30.15	"	C. R., 83, 611	31, 48
Hydrogen ....	....	H	....	-200 (l)	Pictet	1878	
" ....	....	"	....	For liquefaction of H see	Wroblewski and Olszewski	C. R., 98, 304 C. R., 98, 365	46, 888 46, 889
Mercury ....	....	Hg	....	-38.50	Regnault	J., 16, 70	
" ....	....	"	....	-38.8	Stewart	"Heat," p. 88	
" ....	....	"	....	-39	Person	A.C.P.[3], 27, 250	iii., 77
" ....	....	"	....	-39.38	Cavendish	Gm. Kr.	
" ....	....	"	....	-39.44	Hutchins	....	iii., 884
" ....	....	"	....	-40	Quincké	P. A.	vii., 242
" ....	....	"	....	-40.5	Pouillet	G. J. C., 1837	
" ....	....	"	346.5	....	Crichton	P. M., 16, 48	iii., 884
" ....	....	"	349	....	Dalton	....	"
" ....	....	"	339-359	....	Carnelley & Williams	33, 282	
" ....	....	"	350	....	Pictet	P. M. [5], i, 484	31, 163
" ....	....	"	350	....	Van der Weyde	K. D. M.	
" ....	....	"	350	....	Regnault	....	iii., 84
" ....	....	"	355 (734)	....	Meier and Crafts	B., 13, 866	
" ....	....	"	356.25	....	Heinrich	Sw. J., 1, 214	iii., 884
" ....	....	"	354.3 (720)	....	Regnault	M. A. S., 26, 522	iii., 135
" ....	....	"	355.0 (730)				
" ....	....	"	355.8 (740)				
" ....	....	"	356.5 (750)				
" ....	....	"	357.25 (760)				
" ....	....	"	358.0 (770)				
" ....	....	"	358.8 (780)				
" ....	....	"	357.3	....	Crafts	A.C.P.[5], 14, 409	
" ....	....	"	360	....	Dulong and Petit	....	iii., 884
" ....	....	"	360	....	Deville	A., 157, 71	vii., 688
"	Tensions	"	132 (2.1)	....	Thorpe	37, 151	
"	"	"	160 (5.9)	....	"	"
"	"	"	183 (11.8)	....	"	"
"	"	"	200 (19.9)	....	"	"
"	"	"	20 (0.21)	....	Hagen	A.C.P.[2], 16, 610	46, 385

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Mercury	Tensions	Hg	20 ('0013)	....	Hertz	A. C. P. [2], 17, 193	46, 385
"	"	"	20 ('00574)	....	McLeod	C. N., 48, 251	"
Iodine	I	....	107	Person	A. C. P. [3], 27, 250	iii., 77
"	"	175-180	107	Gay-Lussac	A. C. P. [1], 91, 5	iii., 292
"	"	b. 110	Exner	A. C. P. [2], 15, 435	
"	"	a. 200	113-115	Stas	G. J. C., 1865	
"	"	s. 113.6	Regnault	G. J. C., 1856	
"	"	250	....	Stas	....	42, 795
Indium	In	....	176	Winkler	J., 20, 262	
"	"	Red heat	....	Ditte	C. R., 73	24, 795
Iridium	Ir	....	1950	Violle	C. R., 89, 702	29, 524
"	"	2200	Van der Weyde	K. D. M.	
"	"	2500	Pictet	C. R., 88, 1317	
"	"	Only fusible before oxy-hydrogen blowpipe	Deville and Debray	A. C. P. [3]	iii., 317
"	"	Melts in voltaic arc	Children	....	"
Potassium	K	....	s. 55.43	Regnault	J., 9, 43	
"	"	55	....	....	iii., 936
"	"	57.8	Regnault		
"	"	58	Gay-Lussac and Thenard	Rech. Phys. Chim., i., 3	
"	"	58	Pouillet	C. E. T.	
"	"	58	Quincké	P. A.	vii., 242
"	"	62.5	Bunsen	J., 16, 178	iv., 694
"	"	719-731	....	Carnelley & Carleton Williams	35, 565	
"	"	b. 1040	....	Ditmar and Dewar	C. N., 27, 121	26, 726
Lanthanum	La	....	Near the same temperature as Ce	Hillebrand and Norton	P. A., 156, 466	viii., 421
"	"	Between Sb and Ag	"	G. J. C., 1875	
Lithium	Li	....	180	Bunsen	J., 8, 324	
Magnesium	Mg	....	433	....	....	iii., 936
"	"	Volatilizes abt. 1100	abt. 500	Ditte	C. R., 73, 108	24, 795
"	"	750	Van der Weyde	K. D. M.	
"	"	A little above Zn	....	Roscoe and Schorlemmer	T. C., ii., 239	
"	"	Moderate red heat	Bunsen	A., 82, 137	iii., 751
"	"	Volatilizes at same temp. as Zn	Melts at same temp. as Zn	Deville and Caron	A., 101, 359	"
Manganese	Mn	....	1482	Knight	K. D. M.	
"	"	1900	Van der Weyde	"	
"	"	At highest heat of forge	Clarke	C. E. T., 365	iii., 802
"	"	Volatile at very high temperature	....	Jordan	C. R., 86, 1374	34, 772
"	"	Melts above Fe	Deville	G. J. C., 1856	
Molybdenum	Mo	....	Does not fuse in the forge, but softens and agglomerates	Clarke	C. E. T., 365	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Molybdenum	Mo	....	Non-fusible or incompletely so at a white heat	Bucholz		
Nitrogen	N	Does not condense at —136 (150 ats.) —193·1 (760)	....	Wroblewski and Olszewski	C. R., 96, 1140 M. C., 4, 415	44, 781, 952
"	"	"	Wroblewski	C. R., 98, 982	46, 817
Sodium	Na	....	90	Pouillet	C. E. T., 365	
"	"	90	Gay - Lussac and Thenard	Rech. Phys. Chim., i., 111	
"	"	90	Quincké	P. A.	vii., 242
"	"	95·6	Bunsen	J., 16, 178	v., 330
"	"	s. 97·6	Regnault	J., 9, 43	"
"	"	861-954	....	Carnelley & Carleton Williams	35, 565	
Norwegium	Ng	....	254	Dahll	B., 12, 1732	38, 93
"	"	350	"	C. R., 88, 47 C. N., 40, 25	36, 890
Nickel....	Ni	....	1371	Knight	K. D. M.	
"	"	1392-1420	Schertel	N., 22, 543	
"	"	1450	Pictet	C. R., 88, 1317	
"	"	1600	Van der Weyde	K. D. M.	
"	"	At highest heat of forge	Clarke	C. E. T., 365	
Oxygen	O	Condenses under a pressure of 300 ats. at the temp. produced by the rapid evaporation of liquid CO ₂ in vacuo	....	Pictet	C. N., 36, 281	34, 10
"	"	Condenses at —131·6 (26·5 ats.), —133·4 (24·8 ats.), —135·8 (22·5 ats.)	....	Wroblewski and Olszewski	C. R., 96, 1140	44, 781
"	"	c. p. = 50 ats. c. t. = —113	....	Wroblewski	C. R., 97, 309	46, 148
"	"	c. p. 48·7 ats. c. t. —105·4	....	Sarrau	C. R., 97, 489	46, 149
"	"	—113·0 (50 ats.) c. p.; — 129·6 (27·02 ats.), — 131·6 (25·85 ats.), — 133·4 (24·40 ats.), — 134·8 (23·18 ats.), — 135·8 (22·20 ats.), —184 (1 at.)	....	Wroblewski	C. R., 98, 982	46, 817
Osmium	Os	....	2200	Van der Weyde	K. D. M.	
"	"	2500	Pictet	C. R., 88, 1317	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Osmium		Os	....	Only fusible before the oxyhydrogen blowpipe	Clarke	C. E. T., 365	
"		"	Volatile at a white heat	Infusible at a white heat	Dewille & Debray	G. J. C., 1876	
"		"	....	Most infusible of all metals	....	....	iv., 242
Phosphorus	Yellow	P	....	43	Quincké	P. A.	vii., 242
"	"	"	....	44	Person	A. C. P. [3], 27, 250	iii., 77
"	"	"	....	44	Kopp	A., 93, 129	iii., 78
"	"	"	....	44	Gernez	C. R., 63, 217	vi., 934
"	"	"	....	s. 44.2	Damien	G. J. C., 1881	
"	"	"	....	44.2	Person	J., 1, 80	
"	"	"	....	44.2	Desains	J., 1, 84	
"	"	"	....	44.2	Gernez	C. R., 95, 1278	44, 546
"	"	"	230 (514) 218 (359) 200 (266) 180 (204) 165 (120)	44.3	Schrötter	G. J. C., 1847-48	
"	"	"	....	44.4	Pisati and De Franchis	B., 8, 70	
"	"	"	287.3 (762)	44.4-44.5	Pisati	G. J. C., 1875	
"	"	"	250	....	Heinrich	....	iv., 503
"	"	"	288	....	Dalton	....	"
"	"	"	290	....	Pelletier	A., 4, 3	iii., 84
"	"	"	300	....	Van der Weyde	K. D. M.	
"	"	"	360 (3.2ats.)	....	Troost and Haute-feuille	C. R., 76, 76 & 219	26, 600
"	"	"	440 (7.5ats.)	....	"	"	"
"	"	"	494 (18.0ats.)	....	"	"	"
"	"	"	503 (21.9ats.)	....	"	"	"
"	"	"	511 (26.2ats.)	....	"	"	"
"	Red	"	....	255	Odling	O. O. C.	
Lead		Pb	....	320	Pouillet	C. E. T.	
"		"	....	s. 322	Crichton	P. M., 16, 48	
"		"	....	322	Daniell	P. T. [1830], 237	
"		"	....	323	Kustel	C. C. [1882], 783	44, 691
"		"	....	325	Bloxam	"Metals," p. 10	
"		"	....	325	Van der Weyde	K. D. M.	
"		"	....	326	Rudberg	J., 1, 71	
"	Commercial	"	....	326	Ledebur	Wied. Beibl., 5, 1881	
"		"	....	326	Riemsdyk	C. N., 20, 32	
"		"	....	330	Quincké	P. A.	vii., 242
"		"	....	325-335	....	....	iii., 478
"		"	....	332	Person	J., 1, 72	iii., 77
"		"	....	334	Plattner	....	iii., 955
"		"	....	334	Kupffer	A. C. P. [2], 40, 292	iii., 534
"		"	....	334 mercury thermometer, 326.2 by air thermometer	Person	G. J. C., 1848 " 1849	
"		"	....	335	Pictet	P. M. [1879], 446	
"	Pure	"	....	330-335	Brigel	B., 6, 191	26, 846

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Lead	Pb	Between the m. p.'s of Ni and wrought Fe, <i>i.e.</i> , 1450-1600	....	Carnelley & Carleton-Williams	35, 565	
Palladium	Pd	....	1360-1380	Becquerel	G. J. C., 1863	
"	"	1500	Violle	C. R., 87, 961	38, 150
"	"	1700	Pictet	C. R., 88, 1317	
"	"	1950	Quincké	P. A.	vii., 242
"	"	Not fusible in forge, but softens and agglomerates	Clarke	C. E. T., 365	
Platinum	Pt	....	1460-1480	Becquerel	G. J. C., 1863	
"	"	1700	Pictet	P. M. [1879], 446	
"	"	1775	Erhard & Schertel	W. A. C. P. B. [1879], 348	
"	"	1775	Violle	C. R. 1879	38, 150
"	"	1779	"	C. R., 85, 543	36, 106
"	"	1900	Deville	C. R., 56, 195	
"	"	2000	Deville and Debray	....	iii., 74
"	"	2000	Pictet	C. R., 88, 1317	
"	"	2000	Quincké	P. A.	vii., 242
"	"	2000	Marshall-Watts	P. M. [4], 45, 89	26, 461
"	"	b. 2100	Dewar	P. M. [4], 44, 465	26, 239
"	"	2200	Van der Weyde	K. D. M.	
"	"	2533	Mott	M. C. M.	
"	"	2534	Plattner	....	iii., 955
"	"	Begins to melt b. 2950	Hoadley	C. N., 47, 171	44, 770
"	"	Only fusible before oxy-hydrogen blowpipe	Clarke	C. E. T., 365	
Rubidium	Rb	....	38.5	Bunsen	A., 125, 367	v., 129
Rhodium	Rh	....	2000	Pictet	J., 16, 185	
"	"	Only fusible before oxy-hydrogen blowpipe	Clarke	C. R., 88, 1317	
"	"	b. Ir	....	....	v., 101
"	"	Scarcely softens in oxyhydrogen blowpipe	....	....	"
"	"	a. Pt	Deville & Debray	G. J. C., 1859	
Ruthenium	Ru	....	Most refractory of all metals except Os	....	....	v., 135
"	"	1800 (!)	Pictet	C. R., 88, 1317	
"	"	Only fusible in hottest part of oxy-hydrogen blowpipe	....	....	v., 135

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ruthenium	Ru	....	Abt. same as Ir	Deville and Debray	G. J. C., 1876	
Sulphur	S	....	107.2 (1 at.) 135.2 (520 ats.) 140.5 (793 ats.)	Hopkins	J., 1854, 48	iii., 76
"	"	109	Cooke	C. C. P., 548	
"	"	111	Quincké	P. A.	vii., 242
"	"	111.5	Marchand & Scheerer	J. F. P., 24, 129	
"	Rhombic	"	....	111-114	Spring	A. C. P. [5], 22, 170	40, 499
"	"	"	113-113.5	Pisati	G. J. C., 1874	
"	"	"	113.6	Regnault	G. J. C., 1856	
"	"	"	114.5	Brodie	J. F. P., 62, 336	v., 530
"	"	115	Kopp	G. J. C., 1855; A. 93, 129	iii., 78
"	"	115	Person	J., 173	iii., 77
"	"	115	Dufour	A. C. P. [3], 68, 370	iii., 75
"	Rhombic	"	....	115	Spring	A. C. P. [5], 22, 170	40, 499
"	"	440	....	Lemoine	C. R.	24, 1157
"	"	440	....	Dumas.	v., 530	iii., 84
"	"	440	....	Deville and Troost	....	"
"	"	442	....	Heumann & Kochlin	B., 16, 604 & 1628	44, 781 & 1051
"	"	440 (760)	....	Troost and Haute- feuille	C. R., 76, 76 & 219	26, 601
"	"	420 (470)	....	V. Meyer	B., 13, 408	
"	"	444.4	....	Meier and Crafts	B., 13, 869	
"	"	445 (735.2)	....	"	"
"	"	445 (731.4)	....	"	"
"	"	446	....	Ramsay	35, 471	
"	"	447	....	Hittorf	J., 18, 130	
"	(490 in original paper, a mis- print)	"	447 (760)	....	Regnault	J., 16, 70	
"	"	447	....	Andrews	B., 14, 2119	42, 135
"	"	447	113.6	Wiebe	B., 12, 1762	38, 88
"	"	448	....	Carnelley & Williams	33, 282	
"	"	448.1	....	Cooke	C. N., 44, 255	42, 354
"	"	448.4 (760)	....	Regnault	M. A. S., 26, 658	iii., 135
"	"	444.0 (708)	....	Calculated from the experiments of Regnault, M. A. S., 26, 526; by Wein- hold, P. A., 149, 231		
"	"	444.5 (713.8)	....		
"	"	445.0 (719.6)	....		
"	"	445.5 (725.4)	....		
"	"	446.0 (731.3)	....		
"	"	446.5 (737.3)	....		
"	"	447.0 (743.2)	....		
"	"	447.5 (749.3)	....		
"	"	448.0 (755.3)	....		
"	"	448.5 (761.4)	....		
"	"	449.0 (767.5)	....		
"	"	449.5 (773.6)	....		
"	"	450.0 (779.7)	....		
"	"	450	....	Van der Weyde	K. D. M.	
"	Prismatic	"	....	120	Brodie	J. F. P., 62, 336	v., 530
"	Amorphous, insol. in CS ₂	"	....	a. 120	"	G. J. C., 1854	
"	"	"	s. 114.3	Gernez	G. J. C., 1876	
Antimony	Sb	....	425	Van der Weyde	K. D. M.	
"	"	425	Fehling	Handwörterb. I.	
"	"	427	....	"
"	"	432	Pouillet		
"	"	432	Dalton	Gmelin, 5 Ed., 2	
"	Commercial	"	....	432	Ledebur	Wied. Beibl., 1881	
"	"	432	Quincké	P. A.	vii., 432
"	"	440	Pictet	C. R., 88, 1317	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Antimony		Sb	....	450	....	....	i., 315
"		"	....	450	Wright and Luff	33, 19	
"		"	....	620	Mott	M. C. M., 50	
"		"	....	621	Bloxam	"Metals," 10	
"		"	Boils between the m. p.'s of Cu and Ni, i.e., 1090-1450	....	Carnelley & Williams	35, 566	
Selenium	Amorphous	Se	....	Semi-fluid at 100, and perfectly fluid a little a. 100	Berzelius	Traité de Chim., 2, 190	v., 222
"		"	....	103	Mott	M. C. M.	
"	(Vitreous)	"	....	104.4	A. T. F.	N., 22, 585	
"	Amorphous, insol. in CS ₂	"	....	Semi-fluid at 125-130, s. b. 50	Hittorf	J. 4, 319	
"		"	....	217	Siemens	P. A., 159, 117	31, 677
"	Crystalline, insol. in CS ₂	"	....	217	Hittorf	J., 4, 319	
"		"	....	217	Quincké	P. A.	vii., 242
"	(Crystalline)	"	....	217.2	A. T. F.	N., 22, 585	
"	"	"	....	Not completely fluid till a. 250	Regnault	A. C. P. [3], 46, 257	v., 222
"		"	....	250	Etard and Moissan	B. S. C., 34, 69	40, 18
"		"	664-666 (760)	....	Troost	C. R., 94, 1508; N., 26, 168; C. R., 95, 30	44, 17; 42, 1159
"		"	676-683	....	Carnelley & Williams	35, 563	
"		"	Somewhat b. 700	....	Roscoe and Schorlemmer	T. C., i., 356	
"		"	700	217	Wiebe	B., 12, 1762	38, 88
Silicon....		Si	Melts b. the b. p. of zinc	....	Roscoe and Schorlemmer	T. C.	
"		"	Melts between the m. p.'s of steel and cast iron	....	Deville	G. J. C., 1856	v., 267
"		"	Can be fused but not b. 800	....	Troost and Hautefeuille	A. C. P. [5], 7, 453	30, 597
"	(Adamantine)	"	....	Fuses near the m. p. of cast iron	Deville and Caron	A. C. P.	v., 268
Tin		Sn	....	220	Van der Weyde	K. D. M.	
"		"	....	222	Crichton & Rudberg	....	v., 803
"		"	....	226.5	Roberts & Wrightson	P. M. [5], 13, 366	
"		"	....	226.5	Nies & Winkelmann	P. A. [1881], 13, 35	
"		"	....	227.8	Crichton	P. M., 1803	
"		"	....	228	Daniell	P. T. [1830], 237	
"	In oil	"	....	227.8	Liebermann	B., 15, 436	42, 914
"	In CO ₂	"	....	228.4	"	"	"
"	In air	"	....	228.2	"	"	"
"		"	....	228.5	Rudberg	J., 1, 71	
"		"	....	228.5	Riemsdyk	C. N., 20, 32	
"	Commercial	"	....	230	Ledebur	Wied. Beibl., 5	
"		"	....	230	Ponillet		
"		"	....	230	Quincké	P. A.	vii., 242
"	Pure	"	....	230	Kupffer	....	iii., 534

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tin		Sn	....	232.7	Person	G. J. C., 1847	v., 803
"		"	235	"	J., 1, 71	iii., 77
"		"	s. 238	Crichton	P. M., 16, 48	
"		"	246	Mott	M. C. M.	
"		"	1700	....	Van der Weyde	K. D. M.	
"		"	<i>Boils between the m.p.'s of Ni and Fe, i.e., 1450-1600</i>	....	Carnelley & Williams	35, 566	
"		"	White heat	....	Odling	O. O. C.	v., 803
Strontium		Sr	....	Melts at moderate red heat	Roscoe and Schorlemmer	T. C.	
"		"	Volatilizes between Ca and Ba	....	Mallet	30, 357	
"		"	Red heat	Matthiessen	G. J. C., 1855	
"		"	Non-volatile at bright red heat	....	Franz	G. J. C., 1869	
Tellurium		Te	....	400	Van der Weyde	K. D. M.	
"		"	452, 455	Carnelley & Williams	37, 125	
"		"	482	(?)	(?)	
"		"	abt. 500	....	....	v., 709
"		"	525	Pictet	C. R., 88, 1317	
"		"	Between Sb and Pb	Klaproth		
"		"	b. 1390	....	Deville and Troost	J. [1863], 17	v., 709
"		"	b. 1390	....	"	C. R., 91, 83	38, 848
Thorium		Th	....	Almost infusible	Nilson	C. R., 95, 727	44, 152
Titanium		Ti	....	Got only as a powder and not fused			
Thallium		Tl	Red heat	288	Crookes	G. J. C., 1863	
"		"	289	Pictet	C. R., 88, 1317	
"		"	290	Lamy	J., 15, 180	
"		"	293.9	Crookes	17, 123	v., 744
"		"	Volatile in current of H at very high temperature	....	Roscoe and Schorlemmer	T. C.	
Uranium		U	....	207 (!)	Mott	M. C. M.	
"		"	High temperature			
"		"	Bright red heat	Peligot	G. J. C., 1868	
Vanadium		V	....	Fusible only before oxy-hydrogen blowpipe	Roscoe		
Tungsten		W	....	Infusible in forge, but softens and agglomerates	Clarke	C. E. T.	
"		"	a. Mn	Wohler	Gm. Kr.	
Zinc		Zn	....	342	Daniell	31, 243	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Zinc		Zn	....	360	Pouillet		
"		"	....	360	Quincké	P. A.	vii., 242
"		"	....	375	Van de Weyde	K. D. M.	
"		"	1040	abt. 400	Ditte	C. R., 73	24, 795
"		"	....	412	Daniell	P. T. [1831], 443	v., 1068
"	Commercial	"	....	412	Ledebur	Wied. Beibl., 5	
"		"	1042	414	Wiebe	B., 12, 1762	38, 88
"		"	....	415.3	Person	G. J. C., 1847	38, 5
"		"	....	420	Riemsdyk	C. N., 20, 32	
"		"	....	420	Wright and Luff	33, 19	
"		"	....	423	Person	J., 1, 73	
"		"	....	433.3	"	G. J. C., 1848	iii., 936
"		"	....	433	"	A. C. P. [3], 27, 250	iii., 77
"		"	....	450	Pictet	P. M. [1879], 446	
"		"	....	450	Boussingault	A. C. P. [5], 19, 464	38, 610
"		"	891	....	Becquerel	G. J. C., 1863	
"		"	929.6	....	Violle	N., 26, 138; C. R., 94, 720	
"		"	930	....	"	N., 25, 500	42, 697
"		"	930	....	Becquerel	A. C. P., 68, 73	
"		"	932	....	"	N., 25, 500	42, 697
"		"	940	....	Deville and Troost	C. R., 90, 793	38, 606
"	Commercial	"	942	....	Troost	C. R., 94, 788	42, 1028
"		"	1035 (719)	....	Weinhold	P. A., 149, 186	27, 115
"		"	1040	....	Deville and Troost	J., 12, 25	iii., 84; v., 1068
"	By hydrogen thermometer	"	916-925	....	"	C. R., 90, 773	38, 526
"	By air thermometer	"	929-954	....	"	"	"
"	By CO ₂ thermometer	"	1067-1079	....	"	"	"
Zirconium		Zr	....	Melts above Si	Troost	G. J. C., 1865	v., 1080
Order of volatility of metals:—		Cd	most volatile	}	Riemsdyk	C. N., 20, 23	
		Zn					
		Bi					
		Pb					
		Sn	least volatile				

II.—COMPOUNDS CONTAINING TWO ELEMENTS.

1. FLUORIDES. XF.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Arsenic trifluoride	AsF ₃	60·4 (760)	....	Thorpe	37, 351	
" "	"	63	....	Unverdorben	P. A., 7, 316	
" "	"	64-66	....	Mac Ivor	C. N., 30, 169	28, 239
Boron trifluoride	BF ₃	Gas	....	....	....	i., 632
Barium fluoride	BaF ₂	....	a. 908	Carnelley	33, 280	
Bromine fluoride	BrF	....	Solid	Pelouze and Fremy	Traite de Chim., i., 491	
Calcium fluoride	CaF ₂	....	a. 902	Carnelley	33, 280	
Cadmium fluoride	CdF ₂	....	520	"	"	
Cuprous fluoride	Cu ₂ F ₂	....	a. 908	....	33, 280	
Hydrogen fluoride	HF	Cond. at -20	....	Fremy	....	ii., 670
" "	"	19·44	s. b. -34·5	Gore	G. J. C., 1869	vi., 617
Mercuric fluoride	HgF ₂	....	Solid, d. a. 130	Pelouze and Fremy	Traite de Chim., iii., 1092	
Iodine fluoride	IF	....	Solid	"	Traite de Chim., i., 491	
Potassium fluoride	KF	....	789	Carnelley	33, 280	
Lithium fluoride	LiF	....	801	"	"	
Magnesium fluoride	MgF ₂	....	Very high	Cossa	G. J., 7, 212	32, 707
" "	"	a. 908	Carnelley	33, 280	
Sodium fluoride	NaF	....	a. 902	"	"	
Phosphorus pentafluoride	PF ₅	Gas	....	Thorpe	A., 182, 201	29, 46
Rubidium fluoride	RbF	....	753	Carnelley	33, 279	
Sulphur difluoride	SF ₂ (?)	....	Vol. liq.	Pelouze and Fremy	Traite de Chim., i., 576	
Antimony trifluoride	SbF ₃	....	292	Carnelley	33, 275	
Selenium difluoride	SeF ₂	....	Solid	Pelouze and Fremy	Traite de Chim., i., 585	
Silicon tetrafluoride	SiF ₄	....	s. -102 and evaps. with- out fusion	Olszewski	M. C., 5, 127	46, 816
" "	"	s. -140	Natterer	....	v., 270
" "	"	Gas, con- denses un- der great pressure	....	Faraday	....	"
Silicon hexafluoride	Si ₂ F ₆	Volatile	Solid	Troost and Haute- feuille	A. C. P. [5], 7, 453	30, 597
Stannic fluoride	SnF ₄	....	....	Pelouze and Fremy	Traite de Chim., iii., 807	
Strontium fluoride	SrF ₂	....	a. 902	Carnelley	33, 278	
Titanium tetrafluoride	TiF ₄	....	Liquid	Pelouze and Fremy	Traite de Chim., iii., 839	
Zinc fluoride	ZnF ₂	....	734	Carnelley	33, 279	
Zirconium tetrafluoride	ZrF ₄	White heat	....	Pelouze and Fremy	Traite de Chim., ii., 713.	

2. CHLORIDES. XCI.

Silver chloride ....	....	AgCl	....	260	Gmelin	iii., 619	v., 296
" " ....	....	"	....	450	Rodwell	G. J. C., 1875	
" " ....	....	"	....	451	Carnelley	33, 278	
" " ....	....	"	....	457	"	29, 496	
Aluminium chloride ....	....	Al ₂ Cl ₆	abt. 180	Fusible in large mass	Liebig	....	i., 157
" " ....	....	"	180-185	....	Hartley	30, 249	
" " ....	....	"	abt. 700	....	Thorpe	"Metals," 240	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watt's Dict. & J. Ch. Soc.
Arsenic trichloride	AsCl ₃	128 (754)	Liquid	Haagen	P. A., 131, 117	37, 353
" "	"	130·21 (760)	....	Thorpe	37, 352	
" "	"	132	Liquid	Dumas	J. F. P., 18, 449	
" "	"	132	....	Michaelis	J. Z., 6, 239	vii., 105
" "	"	133	....	Regnault	M. A. S., 26, 913	iii., 97
" "	"	133·81 (756·9)	Liquid	Pierre	C. R., 27, 213 A.C.P. [3] 21, 336	
" "	"	134	b. —29	Henry	A. S. S. B., 1879	
Gold dichloride	Au ₂ Cl ₄	d. at 250	Solid	Thompson	J. p. C. [2], 13, 337	30, 485
Boron trichloride	BCl ₃	17 (760)	....	Wohler and Deville	J., 10, 931	
" "	"	18·23 (760)	....	Regnault	M. A. S., 26, 658	iii., 135; vi., 358
Barium chloride	BaCl ₂	....	a. 860	Carnelley	Unpublished	
Beryllium chloride	BeCl ₂	v. b. 520	....	Nilson & Pettersson	C. R., 98, 988, B., 17, 994.	46, 821
" "	"	585–617	Carnelley	P. R. S., 1879	37, 126
Bismuth trichloride	BiCl ₃	....	225–230	Muir	29, 144	
" "	"	227	"	29, 146	
" "	"	230	(?)	(?)	
" "	"	427–439	....	Carnelley & Williams	33, 283	
Bromine monochloride	BrCl	13, d. only stable b. 10	....	(?)	A., 189, 208	
" "	+xH ₂ O	"	....	7	....	....	i., 677
Carbon chlorides	See Part II	....	....	....	....
Calcium chloride	CaCl ₂	....	719	Carnelley	33, 279	
" "	"	723	"	29, 497	
" "	+6H ₂ O	"	....	28	Tilden	45, 268	
" "	"	"	28·5	Person	A. C. P. [3], 27, 250	iii., 77
" "	"	"	29	Kopp	J., 8, 44	
Cadmium chloride	CdCl ₂	abt. 700	abt. 400	Henry	A. S. S. B., 1879	
" "	"	541	Carnelley	33, 279	
" "	"	a. 861	....	Carnelley & Williams	33, 283	
" "	"	861–954	....	" "	35, 564	
Cobalt chloride	+4H ₂ O	CoCl ₂	....	Decrepitates a. 116 with- out fusion	Bersch	W. A., 56, 724	vi., 476
" "	+6H ₂ O	"	....	86–87	"	"	"
Chromic chloride	Cr ₂ Cl ₆	Volatile	Solid	Henry	A. S. S. B., 1879	
" "	"	d. with libe- ration of Cl without fusion	....	Carnelley & Williams	37, 126	
Cæsium chloride	CsCl	....	631	" "	37, 125	
Cuprous chloride	Cu ₂ Cl ₂	....	434	Carnelley	33, 278	
" "	"	954–1032	....	Carnelley & Williams	37, 126	
" "	"	b. 1560	....	Meyer	B., 12, 1284	36, 875
Cupric chloride	CuCl ₂	....	498	Carnelley	33, 278	
Didymium trichloride	DiCl ₃	....	Fusible	Roscoe and Schor- lemmer	T. C., 2, 431	
Erbium trichloride	ErCl ₃	....	"	Humpidge and Burney	35, 115	
Ferrous chloride	FeCl ₂	Volatile	Solid	Henry	A. S. S. B., 1879	
Ferric chloride	Fe ₂ Cl ₆	"	306–307 c., in sealed tubes	Carnelley & Williams	37, 126	
" "	+5H ₂ O	"	....	s., 42	Fritzche	J. p. C., 18, 479	iii., 378
" "	+6H ₂ O	"	....	31	Ordway	S. A. J. [2], 11, 329	vi., 750
" "	+12H ₂ O	"	....	35·5	"	"	"
Gallium dichloride	Ga ₂ Cl ₄	535	164	Boisbaudran	C. R., 93, 294, 329, B., 14, 2237	40, 1103

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Gallium trichloride	Ga_2Cl_6	....	70-76	Boisbaudran	C. R., 86, 578	
" "	"	215-220	75.5	"	C. R., 93, 294, 329; B., 14, 2237	40, 1103
Hydrochloric acid	HCl	Gas	1. -110	Faraday		
" "	"	-80	Cooke	C. C. P., 592	
" "	"	v. t.=40 ats. at 10.6	....	Mitchell	30, 248	
" "	"	Condenses at -102	-112.5	Olszewski	M. C., 5, 127	46, 816
" "	+2H ₂ O	"	....	-18	Berthelot	C. R., 86, 279	34, 363
Mercurous chloride	Hg_2Cl_2	Sublimes 400-500 without melting	....	Henry	A. S. S. B., 1879	
Mercuric chloride	Commercial	HgCl_2	....	258.3 u.c.	Cross and Bevan	41, 112	
" "	"	295	265	....	....	iii., 897
" "	"	291 u.c.	271 u.c.	Hannay	N., 24, 77	
" "	Commercial	"	....	269 u.c.=277 c.	Carnelley	41, 321	
" "	Pure	"	....	276 u.c.=288 c.	"	33, 276	
" "	"	293 c.	"	"	
" "	"	287 c.	Williams	33, 275	
" "	"	303 c.	....	Carnelley & Williams	33, 282	
" "	By thermometer	"	....	275-278 u.c.=285-288 c.	Carnelley	29, 501	
" "	"	302	....	"	29, 496	
" "	"	307	....	Hittorf	G. J. C., 1865	
Iodine monochloride	ICl	101.3	24.2	Thorpe	37, 175	
" "	"	100.5-101.5	24.7	Hannay	26, 818	vii., 678
" "	"	25	Bornemann	B., 10, 121	32, 110
" "	"	25	Trapp	J. p. C., 63, 108	iii., 293
" "	"	100-102	30	Schutzenberger	Z. C. P. [1862] 1	"
" trichloride	ICl_3	....	20-25	Serullas	....	iii., 294
" "	"	25 d.	....	Gm. Kr.	
" "	"	25 d. in air ; does not melt in Cl	Brenken	B., 8, 488	
" "	"	100	25-30	....	A., 189, 185	
" "	"	33	Christomanos	B., 10, 438	32, 164
Indium trichloride	InCl_3	Sublimes without melting far a. 440, slowly at 530, and quickly at a low red heat	....	(?)	(?)	(?)
Potassium chloride	KCl}	....	730	Braun	P. A., 154, 190	
" "	"	734	Carnelley	33, 279	
" "	"	738	"	29, 498	
Lithium chloride	LiCl}	....	598	"	33, 278	
" "	"	602	"	29, 497	
Magnesium chloride	MgCl_2	....	708	"	33, 279	
" "	"	Volatile	....	Henry	A. S. S. B., 1879	
Manganous chloride	MnCl_2	Non-volatile at a temperature above the m. p. of glass	....	....	....

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Manganous chloride	MnCl ₂	....	Easily fusible at dull red heat	Bayer	J. p. C. [2], 5, 105	vii., 771
" "	+4H ₂ O	"	106	87·5	John	....	iii., 804
Molybdenum pentachloride....	MoCl ₅	....	170-175	Piutti	G. I., 9, 538	38, 220
" "	"	185	Debray	....	"
" "	"	268	194	"	G. J. C., 1868	vi., 831
Nitrogen trichloride	NCl ₃	71	Does not s.	Pelouze and Fremy	Traite de Chim., i., 443	
Sodium chloride	NaCl	....	772	Carnelley	33, 280	
" "	"	776	"	29, 498	
" "	"	960	Braun	P. A., 154, 190	
Niobium pentachloride	NbCl ₅	240·5	194	Deville and Troost	C. R., 64	
Nickel chloride	NiCl ₂	Sublimes without melting	....	Henry	A. S. S. B., 1879	
Phosphorous trichloride	PCl ₃	73·8 (760)	....	Regnault	A. Suppl., 4, 129	iii., 97; iv., 510
" "	"	75·95 (760)	....	Thorpe	B., 8, 331	37, 333
" "	"	76 (760)	....	Buff	A. Suppl., 4, 129	37, 334
" "	"	75·5	....	Pawlewski	B., 16, 2633	46, 252
" "	"	285·5 c.t.	....	"	"	"
" "	"	76·25 c.(768)	....	Thorpe	B., 8, 330	28, 731
" "	"	76·7 (745·9)	....	Haagen	P. A., 131, 117	37, 334
" "	"	78 (763)	....	Dumas	A., 96	iv., 510
" "	"	78·34 (751·5)	....	Pierre	C. R., 27, 213 or A. C. P. [3], 20, 5	"
" "	"	78·5 (760)	....	Andrews	G. J. C., 1847, 48	"
" pentachloride	PCl ₅	148	....	Strecker	Lehrbuch	
" "	"	Under pressure melts at 148 and boils a little a. 148	....	....	....	iv., 512
Lead chloride	PbCl ₂	....	498	Carnelley	33, 278	
" "	"	501	"	29, 498	
" "	"	580	Braun	P. A., 154, 190	
" "	"	a. 861	....	Carnelley & Williams	33, 283	
" "	"	861-954	....	"	35, 564	
Rubidium chloride	RbCl	....	710	Carnelley	33, 279	
Sulphur monochloride	S ₂ Cl ₂	136 (760)	....	Chevrier	C. R., 64, 302	v., 533
" "	"	136·5-137 u.c.	....	Hübner & Gueront	Z. C. [2], 6, 455	vii., 1129
" "	"	136-137	....	Dalzell and Thorpe	P. M. [4], 42, 309	24, 1163
" "	"	137·7 (761·4)	....	Haagen	P. A., 131, 117	37, 356
" "	"	138	....	Dumas	A. C. P. [2], 49, 204	"
" "	"	138	....	Ramsay	35, 471	
" "	"	138	....	Hermann & Kochlin	B., 15, 417	42, 927
" "	"	139	....	Ramsay	27, 860	
" "	"	139	....	Wurtz	C. R., 62, 460	vi., 1065
" "	"	139	....	Marchand	J. F. P., 22, 507	v., 533
" "	"	138·12 (760)	....	Thorpe	37, 356	
" "	"	144 (760)	....	Kopp	A., 96	37, 356
Mixture near SCl ₂	SCl ₂ (?)	Variable	....	Marchand	J. F. P., 22, 507	
" "	"	64	....	Davy	"	v., 533
" "	"	64	....	Dumas	A. C. P. [2], 49, 204	"
" "	"	64	....	Marchand	....	"
Sulphur dichloride	"	Begins to boil at 50-60	Crystallizable	Thorpe and Dalzell	24, 1163	
Antimony trichloride	SbCl ₃	198	....	Davy	J. F. P., 18, 449	
" "	"	abt. 200	72	"	"	i., 318
" "	"	216	72	Cooke	J. [1877], 284	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Antimony trichloride	SbCl ₃	221	....	Carnelley & Williams	33, 282	
" "	"	223·5 (760)	73·2	Thorpe	Roy. Soc., 1876	
" "	"	223 (760)	73·2	Kopp	A., 1855 or 1856	
" "	"	225	....	Henry	A. S. S. B., 1879	
" "	"	230	72	Capitaine	J. F. P., 18, 449	
" "	"	160 in vac.	....	Williams	30, 464	
" pentachloride....	SbCl ₅	....	—6	Kammerer	B., 8, 507	28, 1163
" "	"	vol. into	0	Henry	A. S. S. B., 1879	
			SbCl ₃ + Cl ₂				
Selenium dichloride	Se ₂ Cl ₂	Volatile	Liquid	Thorpe	'Non-Metals,' 353	
" tetrachloride	SeCl ₄	Sublimes	Solid	"	"	
" "	"	Easily vol. without fusion	....	Henry	A. S. S. B., 1879	
Silicon trichloride	Si ₂ Cl ₆	144-148	s. abt. —1	Friedel and Ladenburg	A. C. P. [15], 19, 390	38, 608
" "	"	146-148	s. —14	Troost and Haute-feuille	Z. F. C. 14, 331	24, 999
" "	"	146-148	s. —1	Friedel	C. R., 73, 1011	vii., 1086
" tetrachloride	SiCl ₄	50	l. —20	Serullas	J. F. P., 18, 449	v., 268
" "	"	56·81 (760)	....	Regnault	M. A. S., 26, 658	vii., 135
" "	"	57·57 (760)	....	Thorpe	37, 327	
" "	"	55-60	....	Friedel and Ladenburg	B. S. C. [2], 7, 322	vi., 1019
" "	"	58 (762)	...	Haagen	P. A., 131, 117	37, 328
" "	"	59 (760)	....	Pierre	P. A., 76, 458 ; A. C. P. [3], 20, 5	"
" "	"	59	....	Troost and Haute-feuille	C. R., 73, 563	vii., 1086
Stannous chloride	SnCl ₂	617-628	249·3 c.	Carnelley & Williams	35, 563	
" "	"	250	Marx	Gm. Kr.	v., 806
" "	"	b. 619	....	V. and C. Meyer	B., 12, 1196	36, 1014
" "	+4H ₂ O	"	....	50	....	....	v., 807
Stannic chloride	SnCl ₄	112 (754·9)	....	Haagen	P. A., 131, 117	
" "	"	112·5 (752)	...	Andrews	C. N., 25, 61	v., 808
" "	"	113·9 (760)	....	Thorpe	37, 331	
" "	"	114	....	Regnault	M. A. S., 26, 913	iii., 97
" "	"	115·4 (753·1)	....	Pierre	P. A., 76, 458 ; A. C. P. [3], 20, 58	v., 808
" "	"	118-120	....	Watts and Bell	33, 443	
" "	"	120 (767)	....	Dumas	C. N., 25, 61	v., 808
Strontium chloride	SrCl ₂	....	825	Carnelley	33, 280	
" "	"	829	"	29, 498	
" "	"	910	Braun	P. A., 154, 190	
" "	+6H ₂ O	"	....	112	Tilden	45, 268	
Tantalum pentachloride	TaCl ₅	241·6 (753)	211·3	Deville and Troost	C. R., 64, 294	vi., 1079
" "	"	221	" "	B. S. C., 2, 120	v., 662
Tellurium dichloride	TeCl ₂	327 c.	....	Carnelley & Williams	35, 563	
" "	"	209	" "	37, 125	
" tetrachloride	TeCl ₄	414	....	" "	35, 563	
" "	"	224 c.	" "	37, 125	
Thorium "	ThCl ₄	Slightly volatile	....	Roscoe and Schorlemmer	T. C., ii., 274	
" "	"	n.-v. at 440	Solid	Chydenius	P. A., 119, 43	v., 785
Titanium dichloride	Ti ₂ Cl ₄	....	Solid ; d. on heating	Friedel and Guérin	A. C. P. [5], 7, 24	31, 170
" trichloride	Ti ₂ Cl ₆	n.-v.	Solid	" "	"	31, 169
" tetrachloride	TiCl ₄	135	l. —25	Duppa	P. A., 97, 510	v., 837
" "	"	135 (763)	....	Dumas and Kopp	A., 96	
" "	"	136 (762·3)	....	Pierre	P. A., 76, 458, A. C. P. [3], 20, 5	37, 329
" "	"	136·41 (760)	....	Thorpe	37, 329	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Titanium tetrachloride	TiCl ₄	....	l. -25	Friedel and Guérin	A. C. P. [5], 7, 24	31, 168
Thallium chloride	TlCl	....	a. 260	Crookes	17, 139	v., 747
" "	"	427	Carnelley	33, 277	
" "	"	434	"	29, 496	
" "	"	451	Carnelley & Williams		
" "	In the vapour	"	708-719	....	" "	33, 284	
" "	In the liquid	"	719-731	....	" "	"
Uranium tetrachloride	UCl ₄	Volatile	....	Henry	A. S. S. B., 1879	
Vanadium dichloride	VCl ₂	....	Solid	Roscoe	P. T. [1869], 679	
" trichloride	VCl ₃	n.-v. in H	....	"	" "
" tetrachloride	VCl ₄	154 (760)	b. -18	"	" "	vi., 1126
Tungsten pentachloride	WCl ₅	275.6	248	"	C. N., 25, 61	vii., 1184
" hexachloride	WCl ₆	....	180	Forcher	W. A., 44, 159	v., 899
" "	"	183	Cahours	....	"
" "	"	189	Teclu	A., 187, 255	32, 709
" "	"	218	Riche	J., 9, 373	
" "	"	346.7 (759)	275 c.	Roscoe	C. N., 25, 61	vii., 1184
Yttrium trichloride	YtCl ₃	....	Fusible			
Zinc chloride	ZnCl ₂	....	262	Braun	P. A., 154, 190	29, 504
" "	In the vapour	"	676-683	....	Carnelley & Williams	33, 284	
" "	In the liquid	"	708-719	....	" "	"
" "	"	b. 890	....	Meyer	B., 12, 1197	36, 1014
Zirconium tetrachloride	ZrCl ₄	....	Fusible	Henry	A. S. S. B., 1879	
" "	"	b. 440 or 350	....	Deville and Troost	C. R., 45, 821	

3. BROMIDES. XBr.

Silver bromide	....	AgBr	....	427	Carnelley	33, 277	
" "	....	"	....	434	"	29, 496	
Aluminium bromide	....	Al ₂ Br ₆	265-270	90	Weber	J., 10, 157; P. A., 103, 254	i., 156
" "	....	"	260	93	Deville and Troost	J., 12, 26	
" "	....	"	263.3 (747)	....	Mallet	P. T., 1880, 1003	
Arsenic tribromide	....	AsBr ₃	220	20-25	Serullas	A. C. P. [2], 38, 318	
Gold monobromide	....	AuBr	....	s.; d. a. 115			
" dibromide	....	Au ₂ Br ₄	....	s.; d. 115			
Boron tribromide	....	BBr ₃	90.5	....	Wohler & Deville	J., 10, 94; A. C. P. [3], 52, 89	i., 629
Barium bromide	....	BaBr ₂	....	812	Carnelley	33, 280	
Beryllium bromide	....	BeBr ₂	....	585-617	"	P. R. S.	37, 126
Bismuth tribromide	....	BiBr ₃	454-498	....	Carnelley & Williams	33, 283	
" "	....	"	Dull red heat	198-202	MacIvor	C. N., 30, 191	28, 133
" "	....	"	"	200	Weber	....	i., 591
" "	....	"	"	200	Serullas	A. C. P. [2], 38, 318	
" "	....	"	"	210-215	Muir	29, 144	
" "	....	"	"	215	Thorpe	"Metals," 216	
Carbon bromides	....	See Part II.					
Calcium bromide	....	CaBr ₂	....	676	Carnelley	33, 279	
" "	....	"	....	680	"	29, 497	
Cadmium bromide	....	CdBr ₂	....	571	"	33, 278	
" "	....	"	806-812	....	Carnelley & Williams	37, 126	
" "	....	"	800-914	....	Meyer	B., 12, 1284	36, 875
Cobalt bromide	....	CoBr ₂	....	100	Hartley	....	vii., 363
Cuprous bromide	....	Cu ₂ Br ₂	....	504	Carnelley & Williams	37, 125	
" "	....	"	861-954	....	" "	37, 126	
Hydrobromic acid	....	HBr	....	s. -87, and melts at -86.7	Faraday	P. T., 1845, 155	
" "	....	"	Cond. - 69	s. -73	"	....	i., 673
" "	+2H ₂ O	"	....	-11	Berthelot	C. R., 86, 279	34, 363
" "	+5H ₂ O	"	126	....	Champion & Pellet	C. R., 70, 620	vii., 211

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Mercurous bromide	Hg ₂ Br ₂	....	a. 405 (?)	Carnelley	33, 277	
Mercuric bromide	HgBr ₂	....	222-223	Oppenheim	Z. F. C., 13, 155	
" "	By specific heat method	"	....	242	Carnelley	....	33, 276
" "	By thermometer	"	....	244	Williams	33, 275	
" "	"	"	234 u. c. = 244 c.	Carnelley	33, 276	
" "	"	244	Carnelley & Williams	37, 127	
" "	"	319	....	" "	33, 282	
Iodine monobromide	IBr	....	36	....	A., 189, 203	
" "	"	110-120	42	MacIvor	29, 330	
" tribromide	IBr ₃	80-82	....	"	"
Potassium bromide	KBr	....	699	Carnelley	33, 279	
" "	"	703	"	29, 497	
Lithium bromide	LiBr	....	547	"	33, 278	
Magnesium bromide....	MgBr ₂	....	695	"	33, 279	
Nitrogen tribromide....	NBr ₃	Very v.	Liquid	Pelouze & Fremy	Traite de Chemie	
Sodium bromide	NaBr	....	708	Carnelley	33, 279	
" "	"	712	"	29, 497	
Phosphorus tribromide	PBr ₃	167	....	Baudrimont		
" "	"	172.9 (760)	....	Thorpe	37, 335	
" "	"	l. -12	....	....	iv., 509
" "	"	175.3 (760.2)	....	Pierre	C. R., 27, 213, or A. C. P. [3], 20, 5	
" pentabromide	PBr ₅	....	Moderateht.	Balard	....	iv., 510
Lead bromide	PbBr ₂	....	499	Carnelley	33, 278	
" "	"	a. 861	....	Carnelley & Williams	33, 283	
Rubidium bromide	RbBr	....	683	Carnelley	33, 279	
Sulphur monobromide	S ₂ Br ₂	185-200	....	Muir	28, 847	
Antimony tribromide	SbBr ₃	270	94	Serullas	A. C. P. [2], 38, 318	
" "	"	v. 270	90	....	....	i., 317
" "	"	275.4 (760)	90	Kopp	A., 1855 or 1856	
" "	"	280	93	Cooke	J. [1877], 284	
" "	"	283	90	MacIvor	C. N., 29, 179	
Silicon tribromide	Si ₂ Br ₆	240	Crystalline	Friedel	C. R., 73, 101	vii., 1086
" "	"	"	Friedel and Laden- burg	A. C. P. [5], 19, 390	38, 608
" tetrabromide	SiBr ₄	148-150	s. -12 to -15	Serullas	A. C. P. [2], 48, 87	v., 268
" "	"	153.6 (762.3)	....	Pierre	C. R., 27, 213	"
Stannous bromide	In the vapour	SnBr ₂	617-634	259 c.	Carnelley & Williams	35, 564	
" "	In the liquid	"	632-634	259 c.	" "	"	"
Stannic bromide	SnBr ₄	201 u. c.	30	Carnelley & O'Shea	33, 55	
" "	"	203 c.	33	Reiss & Raymann	C. C. [1882], 773	44, 424
" "	"	39	Boedeker	J., 13, 17	
Strontium bromide	SrBr ₂	....	630	Carnelley	33, 279	
Tellurium dibromide	Not quite pure	TeBr ₂	339	abt. 280	Carnelley & Williams	37, 125	
" "	"	343	305	Carnelley	Unpublished	
" tetrabromide	TeBr ₄	414-427	380	Carnelley & Williams	35, 563, & 37, 125	
Titanium tetrabromide	TiBr ₄	230	39	Duppa	J., 9, 365	v., 836
Thallium bromide	TlBr	....	458	Carnelley	33, 278	
" "	"	463	"	29, 496	
Tungsten pentabromide	WBr ₆	333	276	Roscoe	G. J. C., 1872	
Zinc bromide....	ZnBr ₂	....	394	Carnelley	33, 277	
" "	"	695-699	....	Carnelley & Williams	33, 283	
Zirconium tetrabromide	ZrBr ₄	Easily v. at heat of gas flame	....	Roscoe and Schor- lemmer	T. C.	

4. IODIDES. XI.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Silver iodide	AgI	....	527	Carnelley	33, 278	
" "	"	530	"	29, 497	
" "	"	v. at white heat in closed vessel	....	Vogel	N. R. P., 20, 129	vii., 1090
" "	"	450	Rodwell	C. N., 31, 46	28, 532
Aluminium iodide	Al ₂ I ₆	a. Hg	abt. 185	Weber	J., 10, 156; P. A., 107, 264	i., 157
" "	"	350	125	Deville and Troost	J., 12, 26 (?)	
Arsenic triiodide	AsI ₃	....	146	Carnelley	33, 275	
" "	"	394 to 414	....	Carnelley & Williams	33, 283	
Bismuth triiodide	BiI ₃	d. in air, with evolution of I; residue melts at 462	b. 439 in sealed tubes	" "	37, 125	
Bromine iodide	BrI	See Bromides				
Carbon tetraiodide	CI ₄	See Part II				
Calcium iodide	CaI ₂	....	631	Carnelley	33, 279	
Cadmium iodide	CdI ₂	....	404	"	33, 277	
" "	"	708-719; d.	....	Carnelley & Williams	37, 126	
Chlorine iodides	See Chlorides					
Cuprous iodide	Different preparations	Cu ₂ I ₂	....	601	Carnelley	33, 279	
" "	"	"	628	Carnelley & O'Shea	45, 409	
" "	"	759-772	....	Carnelley & Williams	37, 126	
Ferrous iodide	FeI ₂	....	177	Carius & Wanklyn	A., 120, 69	
Gallium triiodide	GaI ₃	a. I	....	Boisbaudran	C. R., 86, 578	
Hydriodic acid	HI	....	-49.5; s. at -51	Faraday	P. T. [1845], 155	iii., 285
Mercurous iodide	Hg ₂ I ₂	310 p. d.	290	Yvon	C. R., 76, 1607	26, 1104
Mercuric iodide	HgI ₂	....	200	Rodwell	P. T. [1882], 1141	36, 498
" "	"	238	(?)	Gm. Kr.	36, 602
" "	"	339-359	238	Carnelley & Williams	33, 283	
" "	"	238	Oppenheim	Z. F. C., 13, 155	
" "	"	349	241	Carnelley & Williams	36, 602	
" "	"	253-254	Köhler	B., 12, 608	36, 602
" "	"	358	....	Hittorf	G. J. C., 1865	
Potassium iodide	KI	....	634	Carnelley	33, 279	
" "	"	639	"	29, 497	
" "	"	666	Braun	P. A., 154, 190	
" triiodide	KI ₃	....	45	Johnson	31, 253	
Lithium iodide	LiI	....	446	Carnelley	33, 278	
" "	"	453	"	29, 496	
Sodium iodide	NaI	....	628	"	33, 279	
" "	"	633	"	29, 497	
Phosphorous diiodide	PI ₂	....	a. 110	Corenwinder	J., 3, 272	
" triiodide	PI ₃	....	55	"	"	
Lead iodide	PbI ₂	....	383	Carnelley	33, 277	
" "	"	861-954	....	Carnelley & Williams	37, 126	
Rubidium iodide	RbI	....	642	Carnelley	33, 279	
Sulphur iodide	SI ₂ or S ₂ I ₂(?)	....	b. 60	Gay-Lussac	Gmelin, 2, 267	
Antimony triiodide	SbI ₃	....	164.4 c.	MacIvor	29, 328	
" "	"	165.5 u. c.	"	C. N., 29, 255	27, 870
" "	"	167	Cooke	J. [1877], 285	
" "	"	401 (760)	....	"	C. N., 44, 255	42, 354
" "	"	400.4-400.9	....	Bennett	"	
" "	"	401	....	"	S. J. [3], 15, 391	
" "	"	414-427	171	Carnelley & Williams	33, 283	
" pentiodide	SbI ₅	....	78-79	Pendleton	C. N., 48, 97	46, 19

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Selenium moniodide....	SeI	....	70	Schneider	P. A., 129, 627	
„ tetriodide	SeI ₄	....	75-80	„	„	
Silicon triiodide	Si ₂ I ₆	Crystalline	250 d.	Friedel & Ladenburg	A. C. P. [5], 19, 390	38, 608 ; vi., 1022
„ tetriodide	SiI ₄	290	120·5	Friedel	J. F. P., 107, 245 ; A., 149, 96	vi., 1022
Stannous iodide	SnI ₂	....	316	Carnelley & Williams	35, 564	
Stannic iodide	SnI ₄	295	146	Personne	J., 15, 172	v., 815
Strontium iodide	SrI ₂	....	507	Carnelley	33, 278	
Titanium tetraiodide	TiI ₄	s. a. 360	150	Hautefeuille	J., 20, 207	v., 841
Thallium iodide	TlI	....	439	Carnelley	33, 278	
„ „	„	446	„	29, 496	
„ „	In the liquid	„	806-814	....	Carnelley & Williams	33, 284	
„ „	In the vapour	„	800-806	....	„ „	„
Zinc iodide....	ZnI ₂	....	446	Carnelley	33, 278	
„ „	„	624	....	Carnelley & Williams		

5. OXIDES. XO.

Aluminium oxide ....	....	Al ₂ O ₃	....	Fuses inoxy-hydrogen flame	....	....	i., 159
Arsenic trioxide ....	....	As ₂ O ₃	Volatile	Fuses under pressure	Odling	O. O. C.	
„ „ ....	....	„	v. abt. 218	....	....	....	i., 373
Boron trioxide ....	....	B ₂ O ₃	....	577	Carnelley	33, 278	
„ „ ....	....	„	....	1300	Quincké	P. A.	vii., 242
Beryllium oxide ....	....	BeO	....	v. without melting in oxyhydrogen flame	Odling	O. O. C.	
Bismuth dioxide ....	....	Bi ₂ O ₂	....	Not at 180, but forms Bi ₂ O ₃	Muir	32, 131	
„ trioxide ....	....	Bi ₂ O ₃	....	Fusible	Odling	O. O. C.	
Carbon oxides ....	....	See Part II.					
Chlorine monoxide ....	....	Cl ₂ O	-19 to -20	Liquid	Pelouze	A, 3, 7	
„ trioxide ....	....	Cl ₂ O ₃	8-9 (745)	....	Brandan	Z. F. C., 13, 47	
„ „ ....	....	„	s. a. 0	Liquid	„	A., 151, 340	vi., 440
„ tetroxide ....	....	Cl ₂ O ₄	....	-76	Faraday	G. J. C., 1845	
„ „ ....	....	„	9·9 (730·9)	....	Schacherl	A., 206, 68	40, 346
„ „ ....	....	„	9 (730)	....	Pebal	A., 178, 1	28, 1158
„ „	From KClO ₃ and H ₂ SO ₄	„	20	....	Millon	....	„
„ „	From euchlorine	„	32	....	„	....	„
„ oxide ....	....	(?)	....	-59	Faraday	....
Chromium trioxide ....	....	CrO ₃	....	190	....	....	i., 952
„ „ ....	....	„	....	200	....	....
„ „ ....	....	„	....	abt. 300	Henry	A. S. S. B.	
„ „ ....	....	„	....	Melts s. b. the b. p. of strong H ₂ SO ₄	Schafarik	W. A., 47, 256	vi., 453
Cuprous oxide ....	....	Cu ₂ O	....	Red heat	Odling	O. O. C.	
Cupric oxide ....	....	CuO	....	Bright red heat. d.			
Water ....	....	H ₂ O	100	0			
„ ....	....	„	For tables of aqueous also for ing in pressure on Part III.	tensions of vapour and table showing influence of m. p. see			

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hydrogen dioxide	H ₂ O ₂	....	l. —30	Thenard	Traite de Chem. 4th ed. iv., 2, 41	iii., 197
Iodine trioxide	I ₂ O ₃	....	Solid ; d. at 125–130	Ogier	C. R., 85, 957	34, 11
Potassium monoxide	K ₂ O	v. at high temp.	Red heat	....	....	iv., 706
" "	"	Infusible if white; contains higher oxide when yellow	Lupton	30, 577	
Magnesium oxide	MgO	..	Infusible	Odling	O. O. C.	
Molybdenum trioxide	MoO ₃	....	759	Carnelley	33, 279	
" "	"	Sublimes	....	Stierlin	J. p. C. [2], 14, 464	31, 691
Nitrogen monoxide	N ₂ O	....	—115	Faraday	G. J. C., 1845	
" "	"	—100	Wills	C. N., 28, 170	vii., 853
" "	"	—92	—99	Pictet	A. C. P. [5], 13, 213	
" "	"	—92 (760)	....	(?)	(?)	27, 23 ; iv., 67
" "	"	—88	....	Regnault	M. A. S., 26, 658	iii., 84
" dioxide	N ₂ O ₂	Cond. —11 (104 ats.) and remains liquid at + 8 (270 ats.)	....	Cailletet	C. R., 85, 1017	34, 11
" trioxide	N ₂ O ₃	18	....	Thorpe	"Non-Metals," 202	
" "	"	b. 0. and perhaps b. —10	l. —30	Hasenbach	J. p. C. [2], 4, 1	
" "	"	cond. + 14.4 (755)	....	Gaines	C. N., 48, 97	46, 15
" tetroxide	NO ₂	28 (760)	....	Dulong	Sw. J., 18, 177	
" "	"	28	....	Mitscherlich	Sw. J., 63, 109	
" "	"	s. —20	Peligot & Fritsche	Gm. Kr.	
" "	"	—11.5 to 12	Muller	G. J. C., 1862	
" "	"	21.6 (760)	....	Thorpe	37, 224	
" "	"	22	....	Goldschmidt	A., 205, 372	40, 506
" "	"	22	....	(?)	(?)	iv., 76
" "	"	s. —10	Deville and Troost	C. R., 64, 257	vi., 871
" "	"	22	—9	Peligot	Gm. Kr.	
" "	"	26	....	Gay-Lussac	"	
" "	"	25–30	....	Girard and Pabst	G. J. C., 1878	
" pentoxide	N ₂ O ₅	40–50	29–30	Odet and Vignon	C. R., 69, 1142	vi., 874
" "	"	45–50	29–30	Deville	J., 2, 257	
" "	"	abt. 45	little a. 30	"	A. C. P. [3], 28, 241	iv., 78
" "	"	abt. 30	Weber	P. A., 147, 113	vii., 856
Sodium monoxide	Na ₂ O	....	Fusible	Odling	O. O. C.	
Osmium tetroxide	OsO ₄	abt. 100	Solid	Henry	A. S. S. B.	
" "	"	abt. 100	....	Deville and Debray	A. C. P. [3], 56	
" "	"	A little above the m. p.	Much b. 100	Claus	A. 67, 375	iv., 246
Lead monoxide	PbO	v. at white heat	Red heat	Henry	A. S. S. B.	
Ruthenium dioxide	RuO ₂	Does not sublime at red heat	....	Deville and Debray	C. R., 83, 926	31, 443
" tetroxide	RuO ₄	....	40	" "	C. R., 80, 458	
" "	"	abt. 100	58	Claus	J., 12, 262	v., 138
Sulphur dioxide	SO ₂	—8 (759.2)	....	Pierre	J., 1, 63	26, 597
" "	"	—10	....	Faraday	P. T. [1823], 189	v., 540

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Sulphur dioxide	SO ₂	-10.1	....	Regnault	M. A. S., 26, 658	iii., 135
" "	"	-10.5	....	Dufour	A. C. P. [3], 68, 378	iii., 87
" "	"	-10.5 (744)	....	Bunsen	P. A., 46, 97	iii., 84
" "	"	-10.3 (741)	....	Andreeff	G. J. C., 1859	
" "	"	-9.9 (754)	....	"	" "
" "	"	-10 (760) ; 35 (not more than 4 ats.)	....	Pictet	C. C. [1877], 81 ; P. M. [5], 1, 484	34, 251 ; 31, 163
" "	"	s. -76	Faraday	P. T. [1845], 155	
" "	"	-79	....	....	v., 540
" "	"	-80	Mitchell	A., 37	
" "	"	-100	Clarke	C. E. T.	
Mixture of sulphur di- and trioxides	SO ₂ +SO ₃	S ₂ O ₅ (?)	5	....	Schultz-Sellack	P. A., 139, 480	vii., 1136
Sulphur trioxide	SO ₃	46.2 (762)	14.8	Weber	P. A., 159, 313	32, 165
" "	"	s. 14.8	"	J. p. C., 25, 218	42, 804
" "	"	a. 25	Bussy	A. C. P. [2], 26, 411	
" "	(a) Modification	"	46 (760) 20 (200)	16	Schultz-Sellack	P. A., 139, 480	
" "	(β) "	"	20 (30-40)	Gradually a. 50	"	"	vii., 135
" "	"	46-47 (760)	29.5	Buff	A. 4th Suppl. 129	
" "	"	When re- cently soli- dified melts abt. 18, but quickly passes into another modifica- tion, which does not melt b. 100, but returns to the first modifica- tion. b. p. =35	Marignac	A., 188, 228	v., 569
Antimony trioxide	Sb ₂ O ₃	Sublimes b. 1560	Red heat	Henry	A. S. S. B.	
" "	"	v. at 300 with- out melting	....	Meyer	B. 12, 1284	
Selenium dioxide	SeO ₂	....	....	Roscoe and Schor- lemmer	T. C.	
Tellurium dioxide	TeO ₂	a. Te	....	Henry	A. S. S. B.	
" trioxide	TeO ₃	....	Fusible	(?)	(?)	
Titanium sesquioxide	Ti ₂ O ₃	Crystalline, forms TiO ₂ on heating	....	Friedel and Guerin	A. C. P. [5], 7, 24	31, 168
" dioxide	TiO ₂	....	Fuses in oxyhydro- gen flame	Odling	O. O. C.	
Thallic oxide	Tl ₂ O ₃	....	759	Carnelley & O'Shea	45, 409	
Uranium tetroxide	UO ₄	....	b. red heat d.	Fairley	31, 127	
Vanadium pentoxide	V ₂ O ₅	....	658	Carnelley	33, 279	
Tungsten trioxide	WO ₃	....	Ht. of forge	Henry	A. S. S. B.	
Zirconium dioxide	ZrO ₂	....	Not in oxy- hydrogen flame	Odling	O. O. C.	

6. SULPHIDES. XS.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Silver sulphide	Ag ₂ S	....	Fuses	Odling	O. O. C.	
Aluminium sulphide....	Al ₂ S ₃	....	Melts with difficulty	Reichel	J. p. C. [2], 12, 55	29, 43
" "	"	Fusible	Freymy	....	i., 160
Arsenic trisulphide	As ₂ S ₃	....	Easily fusible	Odling	O. O. C.	
Boron trisulphide	B ₂ S ₃	Volatile	Solid	"	"	
Beryllium trisulphide	Be ₂ S ₃ (?)	....	Solid	(?)	(?)	
Bismuth trisulphide....	Bi ₂ S ₃	....	a. 264	Odling	O. O. C.	
Carbon sulphides	See Part II					
Cuprous sulphide	Cu ₂ S	....	Fusible	"	"	
" or cupric sulphide	Cu ₂ S or CuS	....	1035	Becquerel	G. P. 813	
Hydrogen sulphide	H ₂ S	....	s.—85·5	Faraday	P. T. [1845], 155	
" "	"	—61·8 (760)	....	Regnault	M. A. S., 26, 658	iii., 135
" "	"	—73	....	Cooke	C. C. P., 592	
Mercuric sulphide	HgS	....	Sublimes without melting	Odling	O. O. C.	
Manganous sulphide....	MnS	....	Not at 305	(?)	(?)	
Nitrogen sulphide	NS	Sublimes 135	158	Michaelis	G. J. C., 1870	
Phosphorus disulphide	Molec. wt. = P ₂ S ₅	PS ₂	....	248–249	Seiler	Diss. Gott., 76	
" "	" "	"	296–298	Ramme	B., 12, 940	36, 691
" monosulphide	P ₂ S	Liquid	s. a little b. 0	Berzelius	Gm., ii., 209	iv., 600
" trisulphide	P ₂ S ₃	380	167	Isambert	C. R., 96, 1499	44, 901
" "	"	200	Lemoine	B. S. C., 1, 407	iv., 602
" "	"	290	"	J., 17, 134	
" pentasulphide	P ₂ S ₅	....	274–276	Meyer	B., 12, 610	36, 579
" "	"	527	....	Andrews	B., 14, 2119	42, 135
" "	"	530	....	Hittorf	P. A., 126, 196	
" "	"	519 (734)	....	Goldschmidt	B., 15, 304	42, 693
" "	"	517 (728·5)	....	"	"	"
" "	"	550 (760)	....	"	(?)	"
" subsulphide	(a) Colourless	P ₄ S	Liquid	s. a little b. 0	Berzelius	Gm., ii., 209	iv., 599
" "	(β) Red	"	....	Solid	"	"	iv., 600
Tetraphosphorus trisulphide	P ₄ S ₃	300–400	142	Lemoine	J., 17, 133	iv., 602
" "	"	166	Ramme	B., 12, 1351	36, 883
Lead sulphide	PbS	Slightly v.	Full red ht.	Odling	O. O. C.	
Antimony trisulphide	Sb ₂ S ₃	....	Red heat	"	"	
Selenium monosulphide	SeS	....	Fusible	Ditte	C. R., 73, 625	24, 995
" disulphide	SeS ₂	....	A little a. 100	Berzelius	....	v., 233
" trisulphide	SeS ₃	....	Fusible	"	....	"
Stannous sulphide	SnS	....	"	Odling	O. O. C.	
Stannic sulphide	SnS ₂	d. on heating	....	"	"

7. SELENIDES. XSe.

Cadmium selenide ....	....	CdSe	....	Solid	Margottet	J. [1877], 269	
Phosphorus subselenide ....	....	P ₄ Se	....	s.—12	Hahn	J. p. C., 93, 430	iv., 597
Hydrogen selenide ....	....	H ₂ Se	Gas; does not cond. at —15	....	Uelsmann	A., 116, 122	v., 218
Thallium selenide ....	....	Tl ₂ Se	....	340	Kuhlmann	J., 17, 255	v., 756
Zinc selenide ....	....	ZnSe	....	Solid	Margottet	J. [1877], 269	

8. TELLURIDES. XTe.

Cadmium telluride ....	....	CdTe ₂	....	Solid	Margottet	C. R., 84, 1293	32, 570
Potassium telluride ....	....	K ₂ Te	....	b. Te	Berzelius	....	iv., 708
Zinc telluride ....	....	ZnTe	....	Solid	Margottet	C. R., 84, 1293	32, 570

9. NITRIDES, PHOSPHIDES, ARSENIDES, AND SILICIDES. XN, XP, XAs, AND XSi.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Aluminum nitride	AlN	....	Does not melt, but slowly d.	Mallet	31, 349	
Boron nitride....	BN	....	Infusible	Odling	O. O. C.	
Carbon nitride (cyanogen)	C ₂ N ₂	See Part II.				
Ammonia	H ₃ N	....	—75	Faraday	P. T. [1845], 155	i., 183
"	"	—38.5	....	Regnault	M. A. S., 26, 658	iii., 135
"	"	—36	....	Thorpe	"Non-Metals"	
"	"	—35.7	....	Loir and Drion	B. S. C., 1, 184	i., 102
"	"	—33.7 (749)	....	Bunsen	....	i., 183
"	"	—17.78 (2.48 ats.)	....	"	....	"
"	"	0 (4.44 ats.)	....	"	....	"
"	"	10.8 (6 ats.)	....	"	....	"
"	"	19.44 (7.6 ats.)	....	"	....	"
"	"	28.31 (10 ats.)	....	"	....	"
"	"	For table of tensions, see Part III.				
Potassium nitride	K ₃ N	....	d. without melting	Gay-Lussac and Thenard, Davy	....	iv., 695
Titanium nitride	Ti ₂ N ₂	Crystalline	d. at red heat	Friedel and Guerin	A. C. P. [5], 7, 24	31, 168
" "	Ti ₃ N ₄	"	"	" "	" "	"
Hydrogen phosphide	H ₃ P	Gas	b. —110	Faraday	(?)	
" "	H ₄ P ₂	....	l. —20	Thenard	A. C. P. [3], 14, 5	iii., 202
Zinc phosphide	Zn ₃ P ₂	Volatile	a. Zn.	Hayer	C. C. [1876], 585	32, 113
Hydrogen arsenide	H ₃ As	—58	....	Cooke	C. C. P.	
" "	"	Cond. —30	....	(?)	(?)	i., 372
" "	"	b. —110	Faraday	(?)	"
" "	"	—113.5	Olszewski	M. C., 5, 127	46, 816
Hydrogen silicide	H ₄ Si	Cond. —11 (50 ats.)	....	Ogier	C. R., 88, 236	36, 436
" "	"	Cond. —5 (70 ats.)	....	"	" "	"
" "	"	Cond. —1 (100 ats.)	....	"	" "	"
" "	"	c.t. = abt. 0	....	"	" "	"

III. COMPOUNDS CONTAINING THREE ELEMENTS.

1. CHLOROBROMIDES, CHLOROIODIDES, AND BROMOIODIDES. XClBr , XClI , AND XBrI .

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Carbon chlorobromides	CCl_3Br , &c.	See Part II.				
Phosphorus chlorobromide	PCl_3Br_2	d. 35	s. -20	Michaelis	B., 5, 9	32, 138; 25, 282
" "	$\text{PBr}_6, 3\text{ClBr}$	PCl_3Br_3	b. 90	s. 4-5	Prinvault	C. R., 74, 368	vii., 961
" "	$\text{PCl}_3\text{Br}_2, 3\text{Br}_2$	"	....	abt. 25	Michaelis	B., 5, 414	"
Silicon chlorobromide	SiCl_2Br_2	abt. 100	....	Friedel & Ladenburg	A. C. P. [4], 27, 416	26, 54
" "	SiCl_3Br	80	Liquid	" "	J., 20, 555	"
Tin chlorobromide	SnClBr_3	181-190	....	Reis and Raymann	C. C., 1882, 773	44, 424
" "	SnCl_2Br_2 (?)	Begins at 130, d.	....	Ladenburg	A. Suppl., 8, 60	vii., 1158
Titanium chlorobromide	TiCl_2Br_2	180	....	Friedel and Guerin	A. C. P. [5], 7, 24	31, 170
" "	TiCl_3Br	160	....	" "	"	31, 169
Mercuric chloroiodide	HgClI	315	153	Kohler	B., 12, 1190	36, 1017
Platinum chloroiodide	PtCl_2I_2	....	b. 100	Kammerer	A., 148, 329	vi., 952
Mercuric bromoiodide	HgBrI}	....	229	Oppenheim	Z. F. C., 13, 155	vi., 816
Silicon tribromide	SiBr_3I	200	....	Friedel	G. J. C., 1869	

2. DOUBLE FLUORIDES, DOUBLE CHLORIDES, DOUBLE BROMIDES, DOUBLE IODIDES, XYF , XYCl , BXYr , XYI .

Hydrofluosilicic acid	$2\text{HF} \cdot \text{SiF}_4 \cdot 2\text{H}_2\text{O}$	H_2SiF_6	....	abt. 19	Kessler	C. R., 90, 1285	38, 789
Aluminium sodium chloride	$\text{Al}_2\text{Cl}_6 \cdot 2\text{NaCl}$	$\text{Al}_2\text{Na}_2\text{Cl}_8$	....	185	Deville	J., 7, 332	....
" phosphoric chloride	$\text{Al}_2\text{Cl}_6 \cdot 2\text{PCl}_5$	$\text{Al}_2\text{P}_2\text{Cl}_{16}$	400	Solid	Baudrimont	J., 15, 54	iv., 516
" " "	"	"	less v. than either of component chlorides	....	Weber	P. A., 107, 375	"
" platinous chloride	$\text{Al}_2\text{Cl}_6 \cdot 2\text{PtCl}_2 \cdot 21\text{H}_2\text{O}$	$\text{Al}_2\text{Pt}_2\text{Cl}_{10}$	....	100	Nilson	J. p. C. [2], 15, 260	32, 278
Auro-cerous chloride	$2\text{AuCl}_3 \cdot 3\text{CeCl}_2 \cdot 20\text{H}_2\text{O}$	$\text{Au}_2\text{Ce}_3\text{Cl}_{12}$	....	Much b. 100	Holzmann	Z. C. P. [1862], 668	vi., 420
Cæsium platinous chloride	$2\text{CsCl} \cdot \text{PtCl}_2$	Cs_2PtCl_4	....	Fuses without d.	Godeffroy	A. P. [3], 9, 343	31, 686
Calcium platinous chloride	$\text{CaCl}_2 \cdot \text{PtCl}_2 \cdot 8\text{H}_2\text{O}$	CaPtCl_4	....	100	Nilson	J. p. C. [2], 15, 260	32, 277
Ferrico-sodic chloride	$4\text{NaCl} \cdot \text{Fe}_2\text{Cl}_6 \cdot 2\text{H}_2\text{O}$	$\text{Fe}_2\text{Na}_4\text{Cl}_{10}$	....	200	Deville	....	iii., 380
" phosphoric chloride	$\text{Fe}_2\text{Cl}_6 \cdot 2\text{PCl}_5$	$\text{Fe}_2\text{P}_2\text{Cl}_{16}$	a. 280	98	Baudrimont	J., 15, 54	iv., 516
Mercuric chloride + hydrochloric acid	$2\text{HCl} \cdot \text{HgCl}_2 \cdot 7\text{H}_2\text{O}$	H_2HgCl_4	....	abt. -2 d.	Ditte	C. R., 92, 353	40, 355
Tetra-ammoniacal hydrochloride	$\text{HCl} \cdot 4\text{NH}_3$	$\text{H}_{13}\text{N}_4\text{Cl}$	....	7	Troost	C. R., 88, 578	36, 501
Hepta-ammoniacal hydrochloride	$\text{HCl} \cdot 7\text{NH}_3$	$\text{H}_{24}\text{N}_7\text{Cl}$	....	-18	"	"	"
Silicon chloroform ....	....	\text{HSiCl_3	35-37	....	Friedel & Ladenburg	B. S. C. [2], 7, 322	vi., 1019
Hydrogen silico-chloride	$3\text{SiCl}_2 \cdot 4\text{HCl}$	$\text{H}_4\text{Si}_3\text{Cl}_{10}$	42	Liquid	Buff and Wohler	J., 10, 168; A. 104, 94	v., 268
Mercuric phosphochloride	$3\text{HgCl}_2 \cdot 2\text{PCl}_5$	$\text{Hg}_3\text{P}_2\text{Cl}_{16}$	v. abt. 200	Easily	Baudrimont	C. R., 55, 361	iii., 911; iv., 516
Nitrogen chlorophosphide ....	....	$\text{N}_3\text{P}_3\text{Cl}_6$	a. 240	110	Gladstone & Holmes	J., 3, 283	iv., 517
" " ....	....	"	250-260	114	Wichelhaus	G. J. C., 1870	
Phospho-platinic chloride	$\text{Cl}_2\text{Pt} : \text{PCl}_3$	PPtCl_5	....	170	Schutzenberger	B. S. C. [2], 14, 178	vii., 987
Diphospho-platinic chloride	$\text{Cl}_2\text{Pt}(\text{PCl}_3)_2$	P_2PtCl_8	....	160	"	B. S. C. [2]	vii., 990
Platinico-phosphoric chloride	$\text{PtCl}_4 \cdot 2\text{PCl}_5$	$\text{P}_2\text{PtCl}_{14}$	a. 300 p. d.	Solid	Baudrimont	....	iv., 516
Phosphoric selenium chloride	$2\text{PCl}_5 \cdot \text{SeCl}_4$	$\text{P}_2\text{SeCl}_{14}$	220	....	"	J., 15, 54	iv., 515
Stannico-phosphoric chloride	$\text{PCl}_5 \cdot \text{SnCl}_4$	PSnCl_9	....	220	"	....	iv., 516
Titano-phosphorous chloride	$\text{PCl}_3 \cdot \text{TiCl}_4$	PTiCl_7	....	85.5	Bertrand	B. S. C., 33, 565	40, 347

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Phosphoric zirconium chloride	$\text{PCl}_5 \cdot 2\text{ZrCl}_4$	$\text{PZr}_2\text{Cl}_{13}$	325	240	Pajkull	B. S. C. [2], 20, 65	26, 1105
Platinous yttrium chloride	$3\text{PtCl}_2 \cdot \text{Yt}_2\text{Cl}_6 \cdot 24\text{H}_2\text{O}$	$\text{Pt}_3\text{Yt}_2\text{Cl}_{12}$	....	100	Nilson	J. p. C. [2], 15, 260	32, 278
Auric hydrogen bromide	$\text{HBr} \cdot \text{AuBr}_3 \cdot 5\text{H}_2\text{O}$	AuHBr_4	....	27	Thomsen	J. p. C. [2], 13, 337	30, 485
Mercuric hydrogen bromide	$\text{HBr} \cdot \text{HgBr}_2 \cdot 4\text{H}_2\text{O}$	HHgBr_3	....	13	"	J. F. P. [2], 11, 283	
Tetra-ammoniacal hydrobromide	$\text{HBr} \cdot 4\text{NH}_3$	$\text{H}_{13}\text{N}_4\text{Br}$	....	6	Troost	C. R., 92, 71	40, 972
Hepta-ammoniacal hydrobromide	$\text{HrBr} \cdot 7\text{NH}_3$	$\text{H}_{22}\text{N}_7\text{Br}$	....	-20	"	"	"
Hydroplatinic bromide	$2\text{HBr} \cdot \text{PtBr}_4 \cdot 9\text{H}_2\text{O}$	H_2PtBr_6	....	100	Topsoe	T. [1868], 274	vi., 950
Ammonium thallium bromide	$\text{NH}_4\text{Br}_3 \cdot \text{TlBr}_3 \cdot 2\text{H}_2\text{O}$	$(\text{NH}_4)\text{TlBr}_6$	....	b. 100	Nickles	C. R., 58, 537	v., 747
" "	$\text{NH}_4\text{Br}_3 \cdot \text{TlBr}_3 \cdot 3\text{H}_2\text{O}$	"		b. 100	"	"	"
Tetra-ammoniacal hydriodide	$\text{HI} \cdot 4\text{NH}_3$	$\text{H}_{13}\text{N}_4\text{I}$	....	abt. -12	Troost	C. R., 92, 715	40, 972
Hepta-ammoniacal hydriodide	$\text{HI} \cdot 7\text{NH}_3$	$\text{H}_{22}\text{N}_7\text{I}$	....	-28	"	"	"
Silicon iodoform	....	\text{HSiI_3	220	Liquid	Friedel	A., 149, 96	vi., 1022

3. BASIC HYDROXIDES. XHO.

Barium hydrate	$\text{Ba}(\text{OH})_2 \cdot 9\text{H}_2\text{O}$	BaH_2O_2	....	75	Rosenstiehl and Rühlmann	C. C. [1870], 684	vii., 123
Sodium hydrate	$2\text{NaHO} \cdot 7\text{H}_2\text{O}$	NaHO}	....	6	Hermes	P. A., 119, 170	v., 339
Ammonium hydrate	Saturated solution	$(\text{NH}_4)\text{HO}$	....	s. -38 to -41	Fourcroy and Vauquelin	....	i., 185

4A. OXYCHLORIDES. XClO.

Carbon oxychloride ....	....	See Part II.					
Chromium oxychloride	....	\text{CrO_2Cl_2	115.9 (760)	....	Thorpe	37, 362	
" "	....	"	116.8 (733)	....	"	21, 514	vi., 456
" "	....	"	117	....	Ramsay	35, 471	
" "	....	"	117.6 (753)	....	Carstanjen	Gm. Kr. Hb.	
" "	....	"	118 (760)	....	Walter	A. C. P. [2], 66, 387	vi., 456
" "	....	"	118	....	(?)	(?)	i., 954
Molybdenum oxychloride	$2\text{MoCl}_6 \cdot \text{MoO}_3$	MoOCl_4	v. b. 100	b. 100	....	....	iii., 1042
Nitrosyl chloride	....	\text{NOCl	-8	....	Tilden	27, 632	
" "	....	"	-5	....	Girard and Pabst	1878	
" "	....	"	-5	....	Müller	A., 205, 372	40, 506
" dichloride	....	\text{NOCl_2	-7	....	Gay Lussac	....	iv., 117
" "	....	"	-7.2	....	Baudrimont	J. F. P., 31, 478	
" "	....	"	-5	Liquid	Müller	A., 122, 1	vi., 437
Nitryl chloride	....	\text{NO_2Cl	5	Liquid	"	"	"
" "	....	"	5	l. -31	Odet and Vignon	C. R., 69, 1142	vi., 874
Phosphorus oxychloride	$\text{O} : \text{PCl}_3$	POCl_3	107.23 (760)	....	Thorpe	B., 8, 329	37, 338
" "	....	"	110	....	Cahours	J. F. P., 45, 129	
" "	....	"	110	....	Heumann & Kochlin	B., 15, 417	42, 927
" "	....	"	110	....	Wurtz	J., 1, 365	iv., 596
" "	....	"	110	....	Wichelhaus	J., 20, 149	vi., 935
" "	....	"	110 (760)	....	Buff	A., 4, suppl., 129	
" "	....	"	....	-1.5	Geuther & Michaelis	B., 4, 769	24, 1162
" "	....	"	....	+2.5	Thorpe	24, 1162	vii., 962
Pyrophosphoric chloride	$\text{O}=\text{PCl}_2-\text{O}-\text{PCl}_2=\text{O}$	$\text{P}_2\text{O}_3\text{Cl}_4$	210-215	l. -18	Geuther & Michaelis	B. S. C., 16, 231; B., 4, 767	vii., 963; 24, 1161
Thionyl dichloride	$\text{Cl} \cdot \text{SO} \cdot \text{Cl}$	SOCl_2	77	....	Henry	A. S. S. B.	
" "	....	"	78 (746)	....	Wurtz	J. F. P., 99, 225; C. R., 62, 460	vi., 1065
" "	....	"	78.8 (760)	....	Thorpe	37, 354	
" "	....	"	82	....	Schiff	J., 10, 105	v., 542
Sulphuryl dichloride	$\text{Cl} \cdot \text{SO}_2 \cdot \text{Cl}$	SO_2Cl_2	69.95 (760)	....	Thorpe	37, 359	
" "	....	"	70	....	Beckurts and Otto	B., 11, 2060	36, 201

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.	
Sulphuryl dichloride....	....	$\text{Cl} \cdot \text{SO}_2 \cdot \text{Cl}$	SO_2Cl_2	70-71	....	Gustavson	G. J. C., 1873	
" "	"	"	"	70.5	....	Behrend	" 1877	
" "	"	"	"	72-73	....	Clausnizer	B., 11, 2010	
" "	"	"	"	77	Liquid	Regnault	A. C. P. [2]	vi., 576
" "	"	"	"	77	Liquid	Williamson	P. R. S., 7, 11	"
Sulphur oxychloride....	....	\text{S_2OCl_4	60-61	Liquid	Ogier	C. R., 94, 446	42, 694	
" oxytetrachloride	....	$\text{SOCl}_3 \cdot \text{O} \cdot \text{SOCl}$	$\text{S}_2\text{O}_3\text{Cl}_4$	....	57 d.	Michaelis and Schifferdecker	B., 6, 998, 27	27, 21, 226
" "	....	$\text{SO}_2\text{Cl}_2 \cdot \text{SOCl}_2$	"	73	Liquid	Michaelis & Mathias	B., 6, 1452	27, 226
Pyrosulphuryl chloride	....	$\text{S}_2\text{O}_5\text{Cl}_2$	139.59 (760)	....	Thorpe	37, 360		
" "	....	"	140.5	....	Ogier	C. R., 94, 217	44, 900	
" "	....	$\text{SO}_3 \cdot \text{SO}_2\text{Cl}_2$ or $\text{SCl}_6 \cdot 5\text{SO}_3$	"	145	....	Rose	P. A., 44, 291	v., 535
" "	" "	"	"	144-148	....	Armstrong	Z. C. [2], 6, 247	vi., 1070
" "	" "	"	"	145-150	....	Rosensthiel	J., 14, 121	v., 571
" "	....	$\text{ClO}_2\text{S} \cdot \text{O} \cdot \text{SO}_2\text{Cl}$	"	146 c.	....	Michaelis	Z. C. [2], 7, 149	vii., 1132
" "	....	"	"	147	....	Heumann & Kochlin	B., 16, 1630	44, 1051
" "	....	"	"	153 (752)	....	Konovaloff	C. R., 95, 1284 ; C. R., 96, 1059 ; B., 16, 1127	44, 553, 782, 900
Compound of hypochlorous oxide and sulphur trioxide	$\text{Cl}_2\text{O} \cdot 4\text{SO}_3$	$\text{S}_4\text{O}_{13}\text{Cl}_2$	....	55	Schutzenberger	J. [1861], 142	iii., 238	
Antimony oxychloride	....	$\text{Sb}_3\text{OCl}_{13}$	....	85	Williams	C. N., 24, 224	25, 122	
" "	....	$\text{Sb}_3\text{O}_4\text{Cl}_7$	....	97.5	"	"	"	"
Selenyl chloride	....	$\text{Cl} \cdot \text{SeO} \cdot \text{Cl}$	SeOCl_2	175-176 (735)	....	Clausnizer	B., 11, 2010	
" "	"	"	"	179.5 (760)	10	Michaelis	Z. F. C., 13, 460	vii., 1079
" "	"	"	abt. 220	Liquid	Weber	J., 12, 91	v., 233	
Trichlorosilicic oxide	....	$\text{SiCl}_3 \cdot \text{O} \cdot \text{SiCl}_3$	Si_2OCl_6	136-139	....	Friedel & Ladenburg	J. F. P., 107, 247	vi., 1021
" "	"	"	$(\text{Si}_2\text{O}_3\text{Cl}_2)_x$	a. 400	....	Troost & Hantefeuille	A. C. P. [5], 7, 453	30, 597
" "	"	"	$\text{Si}_4\text{O}_3\text{Cl}_{10}$	152-154	....	" "	C. R., 73, 563	24, 1000
" "	"	"	$\text{Si}_4\text{O}_4\text{Cl}_8$	198-202	....	" "	A. C. P. [5], 7, 453	30, 597
" "	"	"	$\text{Si}_4\text{O}_7\text{Cl}_2$	....	Not at 440	" "	"	"
" "	"	"	$\text{Si}_8\text{O}_{10}\text{Cl}_{12}$	abt. 300	....	" "	"	"
Telluryl chloride	....	$\text{Cl} \cdot \text{TeO} \cdot \text{Cl}$	TeOCl_2	....	Melts	Ditte	C. R., 83, 336	31, 45
Titanium oxychloride	....	....	$\text{Ti}_2\text{O}_2\text{OCl}_2$	....	Cryst. ; d. on heating	Friedel and Guerin	A. C. P. [5], 7, 24	31, 171
Vandyl trichloride	....	$\text{O} : \text{VCl}_3$	VOCl_3	126.7 (760)	....	Roscoe	P. T., 168, 1	v., 993
" "	"	"	"	127	....	Schafarik	J. F. P., 76, 142	"
" "	"	"	"	127.19 (760)	....	Thorpe	637, 349	
" "	"	"	"	....	b. - 15	Henry	A. S. S. B.	
Tungsten oxychloride	....	....	\text{WOCl_4	....	208-210	Schiff and Piretti	G. J. C., 1879	
" "	"	"	"	v. 227.5	210.4	Roscoe	C. N., 25, 61	vii., 1185
" "	"	"	WO_2Cl_2	v. 265-267	Solid	Forcher	W. A., 44, 159	v., 899

4B. CHLORATES. XClO_3 .

Silver chlorate	....	....	\text{AgClO_3	....	230	Berthelot	B. S. C.	
Barium chlorate	....	....	$\text{Ba}(\text{ClO}_3)_2$	....	414	Carnelley	33, 277	
" "	....	....	"	....	abt. 400	Tilden & Shenstone	P. T., 1884	
" "	....	....	"	....	a. 400	Wächter	A., 52, 231	
" "	....	....	"	....	a. 400	Souchay	A., 102, 381	
Postassium chlorate....	....	....	\text{KClO_3	....	334	Pohl	J., 4, 59	
" "	By calorimeter	....	"	....	359	Carnelley	33, 277	
" "	By air thermometer	....	"	....	abt. 370	Baudrimont	J. p. C., 14, 81, and 161	24, 1151
" "	By calorimeter	....	"	....	372	Carnelley	29, 496	
Lithium chlorate	....	$2\text{LiClO}_3 \cdot \text{H}_2\text{O}$	LiClO_3	....	0	Wächter	A., 52, 231	
Magnesium chlorate	....	$\text{Mg}(\text{ClO}_3)_2 \cdot 6\text{H}_2\text{O}$	$\text{Mg}(\text{ClO}_3)_2$	....	40	Chenevix, Wächter	A., 52, 231	
Sodium chlorate	....	....	\text{NaClO_3	....	302	Carnelley	33, 277	

4c. PERCHLORATES. XClO_4 .

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Silver perchlorate	AgClO_4	....	486	Carnelley & O'Shea	45, 409	
Barium perchlorate	$\text{Ba}(\text{ClO}_4)_2$	....	505	" "	"	
Hydrogen perchlorate	$\text{HClO}_4 \cdot \text{H}_2\text{O}$	HClO_4	....	50	Roscoe	J., 14, 146	
Potassium perchlorate	KClO_4	....	610	Carnelley & Williams	37, 125	
Sodium perchlorate	NaClO_4	....	482	Carnelley & O'Shea	45, 409	
Thallium perchlorate	TlClO_4	....	501	" "	"	

5A. OXYBROMIDES. XBrO .

Bismuth oxybromide ....	....	\text{BiOBr}	....	Solid, unaltered at red heat	Muir	29, 146	
Nitrosyl bromide ....	....	\text{NOBr	-2	....	Landolt	G. J. C., 1860	
" dibromide ....	....	\text{NOBr_2	30-50	....	Muir	28, 844	
" tribromide ....	....	\text{NOBr_3	50-53	....	"	"
Phosphorus oxybromide ....	....	\text{POBr_3	195	45-46	Ritter	J., 8, 301	iv., 596
" " ....	....	"	....	46	Geuther & Michaelis	B., 4, 770	
" " ....	....	"	193	55	Baudrimont		
Tellurium oxybromide ....	....	\text{TeOBr_2	....	Melts	Ditte	C. R., 83, 446	30, 607
Vanadyl tribromide ....	....	\text{VOBr_3	v. 130-135 (100)	Liquid	Roscoe	P. T., 1869, 679	vi., 1125
" dibromide ....	....	\text{VOBr_2	....	d.a. 180 without melting	"	24, 25	
Tungsten oxybromide ....	....	\text{WOBr_4	327	277	"	G. J. C., 1872	

5B. HYPOBROMITES AND BROMATES. XBrO .

Hydrogen hypobromite ....	....	\text{HBrO	50 (50)	....	Dancer	15, 447	iii., 237
Potassium bromate ....	....	\text{KBrO_3	....	a. 350	....	....	i., 672
" " ....	....	"	....	434	Carnelley & O'Shea	45, 409	
Sodium bromate ....	....	\text{NaBrO_3	....	381	Carnelley & Williams	37, 125	

6A, B, and c. OXYIODIDES, IODATES, AND PERIODATES. XIO .

Phosphorus oxyiodide ....	....	$\text{P}_3\text{O}_8\text{I}_6$	....	140	Burton	A. C. J., 3, 280	42, 140
Lead oxyiodide	$\text{PbI}_2 \cdot \text{PbO}$	Pb_2OI_2	....	300 p. d.	....	....	iii., 557
Hydrogen iodate (iodic acid)	$2\text{HIO}_3 \cdot 9\text{H}_2\text{O}$	HIO_3	....	-15	Kammerer	P. A., 138, 390	vii., 593
Potassium iodate ....	....	\text{KIO_3	....	560	Carnelley & Williams	37, 125	....
Potassium periodate ....	....	\text{KIO_4	....	582	Carnelley & Williams	37, 125	
Hydrogen periodate (periodic acid)	$\text{HIO}_4 \cdot 2\text{H}_2\text{O}$	HIO_4	....	130	Langbois	A. C. P. [3], 34, 257; J., 5, 343	iii., 308
" " " ....	"	"	....	130	Lautsch	J. p. C., 100, 65	vi., 743
" " " ....	"	"	....	130-136	Rammelsberg	J. p. C. (?)	"

7. SULPHOCHLORIDES, SULPHOBROMIDES, SULPHOIODIDES. XClS , XBrS , XIS .

Carbon sulphochloride ....	....	\text{CSCl_2	See carbon compounds, Part II.				
Phosphorus sulphochloride ....	....	\text{PSCl_3	124.25	....	Baudrimont	B.S.C. [1861], 117	iv., 606
" " ....	....	....	124.5	....	Chevrier	Gm. Kr.	
" " ....	....	....	124-125	....	Baudrimont	J., 14, 115	37, 341
" " ....	....	....	125 (760)	....	Thorpe	B., 8, 330; C. N., 24, 135	vii., 965; 37, 341
" " ....	....	....	126-127	....	Mitscherlich	....	37, 341
" " ....	....	....	126-127	....	Cahours	J., 1, 364	iv., 606
" " ....	....	....	(?)	....	Flemming	Z. C. [2], 4, 288	vi., 935
" " ....	....	....	125-128	....	Henry	B., 2, 639	"

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Silicon sulphochloride ....	....	$\text{Si}_3\text{S}_2\text{Cl}_8$ (?) or $\text{Si}_3\text{S}_4\text{Cl}_8$	abt. 100	Liquid	Pierre	J. F. P., 41, 342; A., 69, 73	v., 276
Arsenic sulphobromide	AsSBr.SBr_2	AsS_2Br_3	....	abt. -17	Hannay	33, 291	
Phosphorus sulphobromide ....	....	\text{PSBr_3	....	35	Michaelis	B., 4, 777	24, 1162
" " ....	....	"	....	36.4	MacIvor	C. N., 29, 116	
" " ....	....	"	....	38	Michaelis	G. J. C., 1872	vii., 964
" " ....	....	"	215	39	Baudrimont	(?)	
" "	$\text{PSBr}_3 \cdot \text{H}_2\text{O}$	"	....	35	Michaelis	A., 164, 9	vii., 964
" " ....	....	\text{P_2SBr_6	abt. 205	-5	"	"	"
Phosphorus tribromide and Phosphorus trisulphide	$6\text{PBr}_3 \cdot \text{P}_2\text{S}_3$	$\text{P}_8\text{S}_3\text{Br}_{18}$	200	Liquid	Gladstone	P. M. [3], 35, 352	iv., 510
Arsenic sulphoiodide	$\text{AsI}_3 \cdot \text{As}_2\text{S}_3$	$\text{As}_3\text{S}_3\text{I}_3$	....	Slightly a. 100	Schneider	J p. C. [2], 23, 486	40, 686

8A. OXYSULPHIDES, &c. XOS.

(?) ....	....	$\text{I}_2\text{O}_3\text{S}$	a. 160-170 p.d.	Solid	Weber	J. p. C. [2], 25, 224	42, 803
Nitrosulphuric anhydride	$\text{ONO.SO}_2.\text{O.SO}_2\text{ONO}$	$\text{N}_2\text{O}_9\text{S}_2$	360	Solid	Thorpe and Dyson	41, 299	
" "	$\text{S}_2\text{O}_5(\text{NO}_2)_2$	"	abt. 360	Crystalline	Michaelis and Schumann	B. 7, 1076	28, 43
Tellurium oxysulphide	$\begin{array}{c} \text{Te} \\ | \\ \text{O}_2\text{S} \end{array} \text{O}$	TeO_3S}	....	Softens at 30 without melting	Divers and Shimosé	43, 325	

8B. SULPHITES, SULPHATES, AND ANHYDROSULPHATES. XOS.

Hydrogen sulphite (sulphurous acid)	$\text{H}_2\text{SO}_3 \cdot 8\text{H}_2\text{O}$	H_2SO_3	....	4	Pierre	A. C. P., 68, 228	v., 541
Silver sulphate ....	....	\text{Ag_2SO_4	....	654	Carnelley	33, 279	
Cobalt sulphate	$\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$	CoSO_4	....	96-98	Tilden	45, 267	
Ferrous sulphate	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	FeSO_4	....	64	"	"	
Ferric sulphate	$\text{Fe}_2\text{O}_3 \cdot 2\text{SO}_3 \cdot 15\text{H}_2\text{O}$	$\text{Fe}_2\text{S}_2\text{O}_9$	....	110-115	Meister	B., 8, 772	29, 681
Hydrogen sulphate (sulphuric acid)	Pure, sp. gr. 1.842	H_2SO_4	327	s. -35	....	....	v., 573
" " ....	....	"	....	-34.4	Regnault		
" " ....	....	"	325	....	....	....	iii., 84
" " ....	....	"	338	10.5	Marignac	J., 6, 325	vi., 1068
" "	$12\text{H}_2\text{SO}_4 \cdot \text{H}_2\text{O}$	"	338	-0.5	"	G. J. C., 1853	
" "	$\text{H}_2\text{SO}_4 \cdot \text{H}_2\text{O}$	"	205-210	s. 8-9	Wackenroder	J., 2, 249	v., 574
" " ....	"	"	....	7.5	Pierre and Puchot	G. J. C., 1874	
" " ....	"	"	....	8.5	Marignac	J., 6, 325	
" "	$\text{H}_2\text{SO}_4 \cdot 2\text{H}_2\text{O}$	"	193	....	(?)	(?)	v., 574
" "	Sp. gr. 1.671	"	....	l. -20	Lunge	B., 14, 2650	42, 362
" "	" 1.727	"	....	-7.5	"	"	"
" "	" 1.732	"	....	-8.5	"	"	"
" "	" 1.749	"	....	+4.5	"	"	"
" "	" 1.767	"	....	+6.5	"	"	"
" "	" 1.790	"	....	+8.0	"	"	"
" "	" 1.807	"	....	-6.0	"	"	"
" "	" 1.822	"	....	l. -20	"	"	"
" " (fuming)	$\text{H}_2\text{SO}_4 \cdot \text{SO}_3$	$\text{H}_2\text{S}_2\text{O}_7$	....	s. 0	(?)	(?)	v., 574
" " ....	"	"	....	35	Marignac	G. J. C., 1853	
" " ....	"	"	....	35	Schultz-Sellack	B., 4, 110	24, 194
" "	$\text{H}_2\text{SO}_4 \cdot 3\text{SO}_3$	$\text{H}_2\text{S}_4\text{O}_{13}$	....	s. 8-10	Weber	P. A., 159, 313	32, 165
" "	For table of b. p.'s of sulphuric acid of various concentrations, see Part III.						

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Potassium sulphate ....	....	K_2SO_4	....	a. 861	Carnelley	Unpublished	
" disulphate ....	....	$K_2S_2O_7$	....	210	Jacquelin	A. C. P., 32, 234 ; A. C. P. [1870], 311	v., 609
" " ....	....	"	....	Considerably a. 300	Schultz-Sellack	G. J. C., 1871 ; B., 4, 111	vii., 1140 ; 24, 194
Potassium quadrisulphate	$K_2SO_4 \cdot 3SO_3 \cdot 6H_2O$	$K_2S_4O_3$	....	61	Lescœur	C. R., 78, 1044	27, 870
Lithium sulphate ....	....	Li_2SO_4	....	818	Carnelley	33, 280	
" " ....	....	"	....	822	"	29, 498	
Magnesium sulphate ....	....	$MgSO_4$	....	Red heat without d.	(?)	(?)	
" "	$Mg \cdot SO_4 \cdot 7H_2O$	"	....	70	Tilden	45, 267	
Manganese sulphate....	$MnSO_4 \cdot 5H_2O$	$MnSO_4$	....	54	"	"	
Sodium sulphate ....	....	Na_2SO_4	....	861	Carnelley	33, 280	
" " ....	....	"	....	865	"	29, 498	
" " ....	....	"	....	1280	Braun	P. A., 154, 190	
" "	$Na_2SO_4 \cdot 10H_2O$	"	....	34	Tilden & Shenstone	P. R. S., 35, 345	46, 254
" " ....	"	"	....	34	Tilden	45, 267	"
" quadrisulphate	$Na_2SO_4 \cdot 3SO_3 \cdot 6H_2O$	$Na_2S_4O_3$	....	90	Lescœur	C. R., 78, 1044	27, 870
Ammonium sulphate ....	....	$(NH_4)_2SO_4$	d. a. 280	140	Marchand	P. A., 42	i., 193
Nickel sulphate	$NiSO_4 \cdot 7H_2O$	$NiSO_4$	....	98-100	Tilden	45, 267	
Nitrosyl sulphate ....	....	$(NO)_2 SO_4$	....	85-87	"	27, 631	
Thallium sulphate ....	....	Tl_2SO_4	....	632	Carnelley	33, 279	
Zinc sulphate....	$ZnSO_4 \cdot 7H_2O$	$ZnSO_4$	....	50	Tilden	45, 267	

8c. THIOSULPHATES. XOS.

Potassium thiosulphate ....	....	$K_2S_2O_3$	....	d. 550	Berthelot	J. Ph. [2], 23, 247	31, 278
Sodium thiosulphate	$Na_2S_2O_3 \cdot 5H_2O$	$Na_2S_2O_3$	....	45	Kopp	J., 8, 45	iii., 75
" " ....	"	"	....	48.1	Trentinaglia	1876	
" " ....	"	"	....	48.5	Tilden	45, 268	
" " ....	"	"	....	56	Böttger	(?)	v., 636
" "	Dimorphous	"	....	47.9	Parmentier & Amat	C. R., 98, 735	46, 819
" " ....	"	"	....	32	" "	"	"

9. SELENITES AND SELENATES. XSeO.

Mercurous selenite ....	....	Hg_2SeO_3	Boils	180	Berzelius and Muspratt	2, 52	v., 228
Hydrogen selenate (selenic acid)	Most concentrated, not quite free from H_2O	H_2SeO_4	280	....	....	....	v., 230

10. CHROMATES AND DICHROMATES. XCrO.

Potassium dichromate ....	....	$K_2Cr_2O_7$	....	abt. 400	Tilden & Shenstone	P. T., 1884	
Sodium chromate	$Na_2CrO_4 \cdot 10H_2O$	Na_2CrO_4	....	23	Berthelot	....	45, 268

11. BORATES. XBO.

Calcium borate	$CaH_2B_4O_8 \cdot 2H_3BO_3 = CaB_6O_{10} \cdot 4H_2O$	CaB_6O_{10}	Loses its water at 200	450	Ditte	C. R., 77, 783	27, 127
Hydrogen borate	By thermometer	H_3BO_3	....	184	Carnelley	33, 275	
" "	By sp. ht. method	"	....	186	"	"	
Sodium metaborate	$NaBO_2 \cdot 4H_2O$	$NaBO_2$	....	57	"	....	i., 645
" borate ....	....	$Na_2B_4O_7$	....	561	"	33, 278	
" " ....	....	"	....	1000	Quincké	P. A.	vii., 242
" " (borax)	$Na_2B_4O_7 \cdot 10H_2O$	"	....	75.5	Tilden	45, 268	

12A. and B. NITRITES AND NITRATES. XNO.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Silver nitrite ....	....	AgNO ₂	....	Begins abt. 134 after p. d.	Divers	24 91	
Silver nitrate....	Mercury thermometer	AgNO ₃	....	198	Pohl.	J., 4, 59	
" "	Sp. ht. method	"	....	217	Carnelley	33, 276	
" "	Mercury thermometer	"	....	211 u. c. = 213 c.	"	"	
" " ....	" "	"	....	219	(?)	(?)	iv., 104
" "	By sp. ht. method	"	....	224	Carnelley	29, 496	
Aluminium nitrate	Al ₂ (NO ₃) ₆ .18H ₂ O	Al ₂ (NO ₃) ₆	134	72.8	Ordway	J. 12, 114; A. 76, 247	iv., 89
Barium nitrate ....	....	Ba(NO ₃) ₂	....	450 (?)	Maumené	C. R., 97, 1215	46, 384
" " ....	....	"	....	593	Carnelley	33, 278	
Beryllium nitrate	Be(NO ₃) ₂ .3H ₂ O	Be(NO ₃) ₂	140.5	60	Ordway	J., 12, 114	iv., 92
Calcium nitrate ....	....	Ca(NO ₃) ₂	....	561	Carnelley	33, 278	
" " ....	....	"	....	450-500 (?)	Maumené	C. R., 97, 45	46, 3
" "	Ca(NO ₃) ₂ .4H ₂ O	"	132	44	Ordway	J., 12, 115 ; S. A. J., 27, 14	iv., 91
Cadmium nitrate	Cd(NO ₃) ₂ .4H ₂ O	Cd(NO ₃) ₂	132	59.5	"	J., 12, 114 ; S. A. J., 27, 14	iv., 90
Cobalt nitrate	Co(NO ₃) ₂ .6H ₂ O	Co(NO ₃) ₂	....	b. 100	....	....	iv., 92
Chromium nitrate	Cr ₂ (NO ₃) ₆ .18H ₂ O	Cr ₂ (NO ₃) ₆	125.5	37	Ordway	J., 12, 115 ; S. A. J. [2]	iv., 91
Copper nitrate	Cu(NO ₃) ₂ .3H ₂ O	Cu(NO ₃) ₂	170	114.5	"	J., 12, 114	iv., 92
Didymium nitrate ....	....	Di(NO ₃) ₂	....	abt. 300	Frerichs	B., 7, 800	"
" " ....	....	"	....	300	"	A., 191, 331	34, 647
Ferric nitrate	Fe ₂ (NO ₃) ₆ .12H ₂ O	Fe ₂ (NO ₃) ₆	....	35	Hausmam	A., 89, 109	iv., 93
" "	Fe ₂ (NO ₃) ₆ .18H ₂ O	"	125	47.2	Ordway	J., 12, 114	"
Hydrogen nitrate (nitric acid)	....	HNO ₃	86	....	Mitscherlich	P. A., 18, 152	
" " "	....	"	86	....	Millon	J. F. P., 29, 337	
" " "	....	"	86	-55	....	....	iv., 80
" " "	....	"	....	-47	Berthelot	B. S. C., 293	34, 263
" " "	2HNO ₃ .3H ₂ O	"	123	Liquid	Millon	....	iv., 80
" " "	68% .HNO ₃	"	120.5(735)	....	Roscoe	G. J. C., 1860	
" " "	2HNO ₃ .N ₂ O ₆	H ₂ N ₄ O ₁₁	....	s. -5	Weber	J. F. P., 6, 357 ; P. A., 147, 113	vii., 856 25, 1073
Mureuric nitrate	Hg(NO ₃) ₂ .8H ₂ O	Hg(NO ₃) ₂	....	6.6	Ditten	J., 7, 366	iv., 96
Potassium nitrate ....	....	KNO ₃	....	s. 320	Guthrie	P. M. [5], 18, 114	
" " ....	....	"	....	s. 327	Maumené	C. R., 97, 45	46, 3
" " ....	....	"	....	s. 338.3 c.	Schaffgotsch	P. A., 102, 293	
" " ....	....	"	....	339	Person	J., 1, 73 ; A. C. P. [3], 27, 250	iii., 77
" " ....	....	"	....	339	Carnelley	33, 277	
" " ....	....	"	....	342	Braun	P. A., 154, 190	
" " ....	....	"	....	353	Carnelley	29, 496	
Lanthanum nitrate	La (NO ₃) ₃ .3H ₂ O	La(NO ₃) ₃	120	40	Ordway	J., 12, 114	iv., 94
Lithium nitrate	By thermometer	LiNO ₃	....	264	Carnelley	33, 275	
" "	By sp. ht. method	"	....	267	"	"	
Magnesium nitrate	Mg(NO ₃) ₂ .6H ₂ O	Mg(NO ₃) ₂	143	90	Ordway	J., 12, 113	
Manganese nitrate	Mn(NO ₃) ₂ .6H ₂ O	Mn(NO ₃) ₂	129.5	25.8	"	"	
Sodium nitrate	(Commercial)	NaNO ₃	....	286.8 u.c.	Cross and Bevan	41, 112	
" " ....	....	"	....	s. 298	Maumené	C. R., 97, 45	46, 3
" " ....	....	"	....	310.5	Person	J., 1, 73 ; A. C. P. [3], 27, 250	iii., 77; iv., 106
" " ....	....	"	....	s. 313.1 c.	Schaffgotsch	P. A., 102, 293	iv., 106
" " ....	....	"	....	314	Braun	P. A., 154, 190	
" "	By sp. ht. method	"	....	316	Carnelley	33, 276	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Sodium nitrate	By thermometer	NaNO_3	....	303 u. c.= 319 c.	Carnelley	33, 276	
" "	$\text{NaNO}_3 \cdot 7\text{H}_2\text{O}$	"	....	l. a. —15	Ditte	B. S. C., 24, 366	
" " ....	"	"	....	—15	"	C. R., 80, 1164	28, 734
Ammonium nitrate ....	....	\text{NH_4NO_3	180	108	(?)	(?)	i., 192
" " ....	....	"	....	145	Frankenheim	P. A., 93, 17	
" " ....	....	"	....	abt. 152	Berthelot	G. J. C., 1876	
" " ....	....	"	....	153	Maumené	C. R., 97, 1215	46, 382
" " ....	....	"	....	159	Veley	43, 374	
" " ....	....	"	....	165–166	Pickering	C. N., 38, 267	36, 200
Nickel nitrate	$\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	$\text{Ni}(\text{NO}_3)_2$	136·7	56·7	Ordway	J. 12, 114	
Lead nitrate ....	....	$\text{Pb}(\text{NO}_3)_2$	....	450 (?)	Maumené	C. R., 97, 1215	46, 384
Strontium nitrate ....	....	$\text{Sr}(\text{NO}_3)_2$	....	645	Carnelley	33, 279	
Thallium nitrate ....	....	\text{TlNO_3	....	205	Crookes	J., 16, 252	17, 141
Uranium nitrate	$\text{UO}_2(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	UN_2O_8	118	59·5	Ordway	J., 12, 114	vii., 860
" "	$\text{UO}_2(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$	"	....	120	Schultz-Sellack	Z. F. C., 13, 646	"
Ytterbium nitrate	Contains water of crystallization	(?)	....	100	Nilson	C. R., 91, 56	38, 703
Zinc nitrate	$\text{Zn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	$\text{Zn}(\text{NO}_3)_2$	131	36·4	Ordway	J., 12, 113	
" " ....	"	"	....	50	Schindler	....	iv., 107

13. HYPOPHOSPHITES, PHOSPHITES, ORTHOPHOSPHATES, PYROPHOSPHATES AND METAPHOSPHATES. XPO.

Hydrogen hypophosphite (hypophosphorous acid)	....	\text{H_3PO_2	....	17·4	Thomsen	B., 7, 994	vii., 965
Hydrogen phosphite (phosphorous acid)	....	\text{H_3PO_3	....	70·1	Thomsen	B., 7, 996	vii., 965
" " "	....	"	....	74	Hurzig & Geuther	A. C. P., 111, 170	iv., 528
Silver phosphate ....	....	\text{Ag_3PO_4	....	a. 849	Carnelley	33, 280	
Hydrogen phosphate (phosphoric acid)	....	\text{H_3PO_4	....	38·6	Thomsen	J. F. P. [2], 2, 160	B., 7, 997
" " "	....	"	....	41·75	Berthelot	B. S. C., 1878	34, 263
Lithium phosphate ....	....	\text{Li_3PO_4	....	a. 857	Carnelley	33, 280	
Sodium phosphate	$\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$	Na_3PO_4	....	77	(?)	(?)	iv., 580
Silver pyrophosphate ....	....	$\text{Ag}_4\text{P}_2\text{O}_7$	....	585	Carnelley	33, 278	
Sodium pyrophosphate ....	....	$\text{Na}_4\text{P}_2\text{O}_7$	....	a. 888	"	33, 280	
Lead pyrophosphate....	....	$\text{Pb}_2\text{P}_2\text{O}_7$	....	806	"	"	
Silver metaphosphate ....	....	\text{AgPO_3	....	482	Carnelley	33, 278	
" hexametaphosphate ....	....	$\text{Ag}_6\text{P}_6\text{O}_{18}$	....	Becomes soft and semi-fluid at 102, and melts at higher temp.	....	....	iv., 576
Sodium metaphosphate ....	....	\text{NaPO_3	....	617	Carnelley	33, 279	
Lead metaphosphate ....	....	$\text{Pb}(\text{PO}_3)_2$	....	800	"	33, 280	

14. VANADATES. XVO.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Silver orthovanadate	$6\text{Ag}_2\text{O} \cdot 2\text{V}_2\text{O}_5$	Ag_3VO_4	Appeared to soften and then melt	403-565	Carnelley	33, 277	
„ pyrovanadate	$6\text{Ag}_2\text{O} \cdot 3\text{V}_2\text{O}_5$	$\text{Ag}_4\text{V}_2\text{O}_7$	....	383	„	„	
„ octovanadate	$6\text{Ag}_2\text{O} \cdot 4\text{V}_2\text{O}_5$	$\text{Ag}_{12}\text{V}_8\text{O}_{26}$	....	384	„	„	
Barium pyrovanadate	$6\text{BaO} \cdot 3\text{V}_2\text{O}_5$	$\text{Ba}_2\text{V}_2\text{O}_7$	....	a. 863	„	33, 280	
Calcium tetradecavanadate	$6\text{CaO} \cdot 12\text{V}_2\text{O}_5$	$\text{CaV}_4\text{O}_{11}$	....	637	„	33, 279	
Sodium orthovanadate	$6\text{Na}_2\text{O} \cdot 2\text{V}_2\text{O}_5$	Na_3VO_4	....	a. 866	„	33, 280	
„ pyrovanadate	$6\text{Na}_2\text{O} \cdot 3\text{V}_2\text{O}_5$	$\text{Na}_4\text{V}_2\text{O}_7$	....	654	„	33, 279	
„ octovanadate	$6\text{Na}_2\text{O} \cdot 4\text{V}_2\text{O}_5$	$\text{Na}_{12}\text{V}_8\text{O}_{26}$	....	562	„	33, 278	
„ metavanadate	$6\text{Na}_2\text{O} \cdot 6\text{V}_2\text{O}_5$	NaVO_3	....	562	„	„	
„ tetradecavanadate	$6\text{Na}_2\text{O} \cdot 12\text{V}_2\text{O}_5$	$\text{Na}_2\text{V}_4\text{O}_{11}$	....	581	„	„	
Basic lead pyrovanadate	$6\text{PbO} \cdot 2\frac{1}{2}\text{V}_2\text{O}_5$ or $2(\text{Pb}_2\text{V}_2\text{O}_7)$.	$\text{Pb}_5\text{V}_4\text{O}_{15}$	....	731	„	33, 279	
Lead metavanadate	$6\text{PbO} \cdot 6\text{V}_2\text{O}_5$	$\text{Pb}(\text{VO}_3)_2$	....	a. 849	„	33, 280	
Thallium orthovanadate	$6\text{Tl}_2\text{O} \cdot 2\text{V}_2\text{O}_5$	Tl_3VO_4	....	566	„	33, 278	
„ pyrovanadate	$6\text{Tl}_2\text{O} \cdot 3\text{V}_2\text{O}_5$	$\text{Tl}_4\text{V}_2\text{O}_7$	....	454	„	„	
„ octovanadate	$6\text{Tl}_2\text{O} \cdot 4\text{V}_2\text{O}_5$	$\text{Tl}_{12}\text{V}_8\text{O}_{26}$	....	392	„	33, 277	
„ decavanadate	$6\text{Tl}_2\text{O} \cdot 5\text{V}_2\text{O}_5$	$\text{Tl}_{12}\text{V}_{10}\text{O}_{31}$	....	404	„	„	
„ metavanadate	$6\text{Tl}_2\text{O} \cdot 6\text{V}_2\text{O}_5$	TlVO_3	....	424	„	„	
„ tetradecavanadate	$6\text{Tl}_2\text{O} \cdot 7\text{V}_2\text{O}_5$	$\text{Tl}_{12}\text{V}_{14}\text{O}_{41}$	....	408	„	„	

15. ARSENATES. XAsO.

Hydrogen arsenate (arsenic acid)	$2\text{H}_3\text{AsO}_4 \cdot \text{H}_2\text{O}$	H_3AsO_4	....	100	....	....	i., 378
Sodium arsenate	$\text{Na}_3\text{AsO}_4 \cdot 12\text{H}_2\text{O}$	Na_3AsO_4	....	86	....	....	i., 384

16. CARBONATES. XCO.

Potassium carbonate ....	....	\text{K_2CO_3	....	834	Carnelley	33, 280	
„ „ ....	....	„	....	838	„	29, 498	
„ „ ....	....	„	....	1150	Braun	P. A., 154, 190	
Lithium carbonate ....	....	\text{Li_2CO_3	....	695	Carnelley	33, 279	
„ „ ....	....	„	....	699	„	29, 497	
Sodium carbonate ....	....	\text{Na_2CO_3	....	814	„	33, 280	
„ „ ....	....	„	....	818	„	29, 498	
„ „ ....	....	„	....	920	Braun	P. A., 154, 190	33, 280
„ „	$\text{Na}_2\text{CO}_3 + 10\text{H}_2\text{O}$	„	....	34	Hammerl	M. C., 3, 419	42, 1164
„ „ ....	„	„	....	34	Tilden	45, 268	
Rubidium carbonate ....	....	\text{Rb_2CO_3	....	837	Carnelley & Williams	37, 125	
Thallium carbonate ....	....	\text{Tl_2CO_3	....	269	Williams	33, 275	
„ „	Mercury thermometer	„	....	261 u. c. = 272 c.	Carnelley	„	
„ „	Calorimeter	„	....	273	„	„	

17. SILICATES. XSiO.

Silico-oxalic acid ....	....	$\text{H}_2\text{Si}_2\text{O}_4$	....	Cryst.; does not melt at 100	Friedel and Ladenburg	A. C. P. [5], 19 390	38, 608
Sodium silicate	$\text{Na}_2\text{SiO}_3 \cdot 8\text{H}_2\text{O}$	Na_2SiO_3	....	45	Ordway	S. A. J. [2], 40, 186	vi., 1018

IV. COMPOUNDS CONTAINING FOUR ELEMENTS.

1. DOUBLE SULPHATES AND DOUBLE SELENITES. XYSO AND XYSeO.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Trihydrogen argentic sulphate	$\text{AgH}_3(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$	$\text{AgH}_3(\text{SO}_4)_2$	....	100–150	Schultz	....	vi., 1073
Aluminium caesium sulphate	$\text{AlCs}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{AlCs}(\text{SO}_4)_2$	....	105–106	Tilden	45, 267	
„ potassium sulphate	$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{AlK}(\text{SO}_4)_2$	....	84.5	„	„	
Aluminium sodium sulphate	$\text{AlNa}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{AlNa}(\text{SO}_4)_2$	....	61	„	„	
„ ammonium sulphate	$\text{Al}(\text{NH}_4)(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{Al}(\text{NH}_4)(\text{SO}_4)_2$	....	92	„	„	
Aluminium rubidium sulphate	$\text{AlRb}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{AlRb}(\text{SO}_4)_2$	....	99	„	„	
Hydrogen calcium sulphate....	$\text{CaSO}_4 \cdot 3\text{H}_2\text{SO}_4$	$\text{CaH}_6(\text{SO}_4)_4$	....	A little a. 100	Schultz	P. A., 133, 137	vi., 1071
Chromium potassium sulphate	$\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{CrK}(\text{SO}_4)_2$	....	89	Tilden	45, 267	
„ ammonium sulphate	$\text{Cr}(\text{NH}_4)(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{Cr}(\text{NH}_4)(\text{SO}_4)_2$	....	100	....	....	v., 588
Hydrogen potassium sulphate	....	\text{HKSO_4	....	197	....	....	v., 608
„ „ „	....	„	....	200	Mitscherlich	G. J. C., 1830	
„ „ „	....	„	....	210	Schultz-Sellack	B., 4, 111	
„ potassium anhydrosulphate	$\text{KHSO}_4 \cdot \text{SO}_3$	HKS_2O_7	....	168	„	„	24, 194
Trihydrogen potassium sulphate	$\text{KHSO}_4 \cdot \text{H}_2\text{SO}_4$	$\text{H}_3\text{K}(\text{SO}_4)_2$	....	abt. 95	Schultz	....	vi., 1073
Hydrogen lithium sulphate....	....	\text{HLiSO_4	....	160	„	....	vi., 1072
Trihydrogen sodium sulphate	....	$\text{H}_3\text{Na}(\text{SO}_4)_2$	....	abt. 100	„	....	vi., 1073
Indium ammonium sulphate	$\text{In}(\text{NH}_4)(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{In}(\text{NH}_4)(\text{SO}_4)_2$	....	36	Rössler	J. p. C. [2], 7, 14	vii., 669
Trihydrogen lithium selenite	$\text{LiHSeO}_3 \cdot \text{H}_2\text{SeO}_3$	$\text{H}_3\text{LiSe}_2\text{O}_6$	100	Crystalline	Nilson	B. S. C. [2], 21, 253	28, 420

2. DOUBLE NITRATES. XYNO.

Auric hydrogen nitrate	$\text{Au}(\text{NO}_3)_3 \cdot \text{HNO}_3 \cdot 3\text{H}_2\text{O}$	$\text{AuH}(\text{NO}_3)_4$	....	72–73	Schottlander	A., 217, 312	44, 855
Cerous magnesium nitrate	$\text{Ce}(\text{NO}_3)_2 \cdot \text{Mg}(\text{NO}_3)_2 \cdot 5\text{H}_2\text{O}$	$\text{CeMg}(\text{NO}_3)_4$	....	200	Lange	J. p. C., 82, 129	iv., 91
Hydrogen potassium nitrate	$\text{KNO}_3 \cdot 2\text{HNO}_3$	$\text{H}_2\text{K}(\text{NO}_3)_3$	....	—3	Ditte	C. R., 89, 576	38, 154
„ ammonium nitrate	$(\text{NH}_4)\text{NO}_3 \cdot \text{HNO}_3$	$\text{H}(\text{NH}_4)(\text{NO}_3)_2$	....	9	„	„	38, 153
„ „ „	$(\text{NH}_4)\text{NO}_3 \cdot 2\text{HNO}_3$	$\text{H}_2(\text{NH}_4)(\text{NO}_3)_3$	....	18	„	„	„

3. HYPOPHOSPHITES, DOUBLE PHOSPHATES, AND DOUBLE ARSENATES. XYPO AND XYAsO.

Ammonium hypophosphite....	....	$(\text{NH}_4)\text{H}_2\text{PO}_2$	d. 240	200	(?)	(?)	iv., 525
Potassium dihydrogen phosphate	....	\text{H_2KPO_4	....	96	Tilden	45, 268	
Disodium hydrogen phosphate	$\text{HNa}_2\text{PO}_4 \cdot 12\text{H}_2\text{O}$	HNa_2PO_4	....	35	Kopp	J., 8, 45	
„ „ „	....	„	....	35	Tilden	45, 268	
„ „ „	....	„	....	36.4	Person	J., 1, 72	
Sodium dihydrogen phosphate	....	\text{H_2NaPO_4	....	204	(?)	(?)	iv., 579
$\text{NaH}_2\text{PO}_4 + \text{Na}_2\text{HPO}_4$ ....	....	$\text{H}_3\text{Na}_3(\text{PO}_4)_2$	....	a. 200	Filhol & Senderens	C. R., 94, 649	42, 693
„ „ „	$\text{H}_3\text{Na}_3(\text{PO}_4)_2 \cdot 15\text{H}_2\text{O}$	„	....	55	„	„	„
Thallium dihydrogen phosphate	....	\text{H_2TlPO_4	....	190	Lamy	J., 18, 246	
Dithallium hydrogen phosphate	$2\text{HTl}_2\text{PO}_4 \cdot \text{H}_2\text{O}$	HTl_2PO_4	....	145	„	„	
Potassio-sodic dimetaphosphate	$\text{KNaP}_2\text{O}_6 + \text{H}_2\text{O}$	KNaP_2O_6	....	a. 150	Fleitmann	(?)	iv., 578
Disodium hydrogen arsenate	....	\text{HNa_2AsO_4	....	a. 200	(?)	(?)	i., 384
„ „ „	$\text{HNa}_2\text{AsO}_4 \cdot 12\text{H}_2\text{O}$	....	....	28	Tilden	45, 268	

4. COMPOUNDS CONTAINING XHClS , XHClN , XHBrN , XHOB , XHON , AND XHOSi .

Name.	Remarks.	Formula.	Bolling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Trichlorosilicon sulphhydrate....	$\text{SiCl}_3\cdot\text{SH}$	SiHCl_3S	96	Liquid	Friedel & Ladenburg	B. S. C. [2], 7,472	vi., 1023 ; vii., 1086
" "	"	"	95-97	....	" "	A. C. P. [4], 27,416	26, 53
Silver ammoniochloride	$\text{AgCl}\cdot\text{NH}_3$	AgH_3ClN}	....	38	Faraday	....	i., 183
Mercuric ammoniochloride	$\text{HgCl}_2\cdot\text{NH}_3$	$\text{HgH}_3\text{Cl}_2\text{N}$	590	Solid	Rose	....	iii., 898
Silver ammoniobromide	$\text{AgBr}\cdot\text{NH}_3$	AgH_3BrN}	....	90	Terreil	C. R., 98, 1279	46, 890
Fluoboric acid	$\text{HBO}_3\cdot 3\text{HF}$	$\text{F}_3\text{H}_4\text{O}_3\text{B}$	a. 100	....	Gay - Lussac and Thenard	....	i., 633
Ammonio-silver nitrite	$\text{AgNO}_2\cdot\text{NH}_3$	$\text{AgH}_3\text{O}_2\text{N}_2$	....	70	Reychler	B., 16, 2425	46, 157
" ammonium nitrate	$2(\text{NH}_4)\text{NO}_3\cdot 3\text{NH}_3$	$(\text{NH}_4)_2\text{H}_9\text{O}_6\text{N}_5$	....	-22	Troost	C. R., 94, 789	42, 1162
Tetrammonioplutinous oxide	....	$\text{PtH}_{12}\text{ON}_4$	....	110 d.	....	....	iv., 675
Silicotungstic acid	$\text{SiO}_2\cdot 12\text{WO}_3\cdot 4\text{H}_2\text{O}$	$\text{W}_{12}\text{H}_9\text{O}_{42}\text{Si}$	....	36-53	Marignac	A. C. P. [4], 3, 5	v., 916
Tungstosilicic acid	$\text{SiO}_2\cdot 12\text{WO}_3\cdot 4\text{H}_2\text{O}$	"	....	b. 100	"	"	v., 917

5. COMPOUNDS CONTAINING XClBrO , XClBrS , XClOS , XClOCr , XClON , XClOP , XClOV .

Phosphorus oxychlorobromide	....	\text{PCl_2BrO	135-137	Liquid	Menschutkin	J. F. P., 98, 485	vi., 935
" "	....	"	....	11	Geuther & Michaelis	B., 4, 770	24, 1162
" "	....	"	137.6 c. (760)	....	Thorpe	37, 343	
Phosphorus sulphochlorobromide	$\text{PCl}_2\cdot\text{SBr}$	PCl_2BrS	Begins to boil 150 ; d.	....	Michaelis	B., 5, 8	vii., 965
Pyrosulphuric chloride ....	....	$\text{HClOS} (?)$	140.5 c.	....	Ogier	C. R., 96, 648	44, 646
Sulphuryl hydroxyl chloride (chlorosulphuric acid)	$\text{Cl}\cdot\text{SO}_2\cdot\text{OH}$	HClO_3S	145	Liquid	Williamson	P. R. S., 7, 11	v., 576
" " "	"	"	150-151 (726)	....	Clausmizier	A., 196, 265 ; B., 11, 2008	36, 691
" " "	"	"	150.7-152.7 c.	....	Beckurts and Otto	B., 11, 2059	36, 200
" " "	"	"	155.3 c. (760)	....	Thorpe	37, 358	
" " "	"	"	158.4 c.	Liquid	Michaelis	Z. C. [2], 7, 150	vii., 1135
Potassium chlorosulphate	$\text{Cl}\cdot\text{SO}_2\cdot\text{OK}$	KCIO_3S}	....	190	Müller	B., 6, 231	26, 842
" "	"	"	....	300-350	(?)	"	"
Phosphorus pentachloride + sulphur dioxide	$\text{PCl}_5\cdot\text{SO}_2$	$\text{PCl}_5\text{O}_2\text{S}$	100	....	Kremers	J., 2, 245	
Sulphoselenium oxytetra-chloride	$\text{ClSO}_2\cdot\text{OSeCl}_3$	$\text{SeCl}_4\text{O}_3\text{S}$	183 d.	165	Clausmizier	A., 196, 265 ; B., 11, 2007, & 2009	36, 691 ; 36, 201
Action of SO_3 on SeCl_4	$2(\text{SeCl}_4\cdot 5\text{SO}_3)\cdot 5(\text{SeCl}_4\cdot\text{SeO}_2)$ or $\text{SeCl}_4\cdot\text{SO}_3$	$\text{SeCl}_4\text{O}_3\text{S}$	187	Crystalline	Rose and Berzelius	P. A., 44, 315 ; A. C. P. [2], 9, 225	v., 224
	$\text{CaCl}_2\cdot 2\text{CrO}_3\cdot 5\text{H}_2\text{O}$	$\text{CaCl}_2\text{O}_6\text{Cr}_2$	....	56	Pratorius	A., 201, 1	
	$\text{CoCl}_2\cdot 2\text{CrO}_3\cdot 9\text{H}_2\text{O}$	$\text{CoCl}_2\text{O}_6\text{Cr}_2$	....	40	"	"	
	$\text{MgCl}_2\cdot 2\text{CrO}_3\cdot 9\text{H}_2\text{O}$	$\text{MgCl}_2\text{O}_6\text{Cr}_2$	....	66	"	"	
	$\text{NiCl}_2\cdot 2\text{CrO}_3\cdot 9\text{H}_2\text{O}$	$\text{NiCl}_2\text{O}_6\text{Cr}_2$	....	47	"	"	
	$\text{SrCl}_2\cdot 2\text{CrO}_3\cdot 4\text{H}_2\text{O}$	$\text{SrCl}_2\text{O}_6\text{Cr}_2$	....	72	"	"	
	$\text{ZnCl}_2\cdot 2\text{CrO}_3\cdot 9\text{H}_2\text{O}$	$\text{ZnCl}_2\text{O}_6\text{Cr}_2$	....	37.5	"	"	
Action of N_2O_4 on BCl_3	$\text{BCl}_3\cdot\text{NOCl}$	BCl_4ON}	....	23-24	Geuther	J. p. C. [2], 8, 354	27, 540
Hydroxylamine hydrochloride	$\text{NH}_2(\text{OH})\cdot\text{HCl}$	H_4ClON}	....	100	Lossen	Z. C. [2], 1, 551	vi., 723
Hydroxylamine hemihydrochloride	$2\text{NH}_2(\text{OH})\cdot\text{HCl}$	$\text{H}_7\text{ClO}_2\text{N}_2$	....	85	"	"	vii., 662
Hydroxylamine sesquihydrochloride	$3\text{NH}_2(\text{OH})\cdot 2\text{HCl}$	$\text{H}_{11}\text{Cl}_2\text{O}_3\text{N}_3$	....	95	"	"	"

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
	$\text{AlCl}_3 \cdot \text{POCl}_3$	AlCl_6OP}	....	165	Casselmann	A.	iv., 597
	$\text{As}_2\text{O}_3 \cdot \text{PCl}_5$ (?)	$\text{As}_2\text{Cl}_5\text{O}_3\text{P}$ (?)	110	....	Person and Bloch	J. [1849], 246	vi., 220
	$\text{BCl}_3 \cdot \text{POCl}_3$	BCl_6OP}	....	73 in sealed tubes	Gustavson	B., 4, 975	vii., 208
	$\text{MoCl}_3 \cdot \text{POCl}_3$	MoCl_6OP	170 d.	125-127	Wehrlin & Giraud	J. [1877], 278	
	"	"	170 d.	125-127	Piutti	G. I., 9, 538	38, 220
	$\text{SnCl}_4 \cdot \text{POCl}_3$	SnCl_7OP	180	55	Casselmann	A.	iv., 597
	"	"	180	66	"	A., 83, 257	v., 809
	$\text{TiCl}_4 \cdot \text{POCl}_3$	TiCl_7OP	140	110	Wehrlin & Giraud	J. [1877], 278	
Vanadinite	$3\text{Pb}_3(\text{VO}_4)_2 \cdot \text{PbCl}_2$	$\text{Pb}_5\text{ClO}_{12}\text{V}_3$	....	a. 802	Carnelley	33, 280	

V. COMPOUNDS CONTAINING FIVE ELEMENTS.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Potassium nitrosulphate	$\text{K}_2\text{SO}_4 \cdot \text{HNO}_3$	$\text{HK}_2\text{O}_7\text{SN}$	....	150	Jacquelain	A. C. P., 32, 234	
" phosphatosulphate	$\text{K}_2\text{SO}_4 \cdot \text{H}_3\text{PO}_4$	$\text{H}_3\text{K}_2\text{O}_8\text{SP}$	....	240	"	"	
Cadmium tungstoborate	$(2\text{CdO} \cdot \text{B}_2\text{O}_3 \cdot 9\text{WO}_3 \cdot 2\text{H}_2\text{O}) \cdot 16\text{Aq.}$	$\text{H}_4\text{Cd}_2\text{O}_{34}\text{W}_9\text{B}_2$	....	75	Klein	B. S. C. [2], 36, 205	42, 17

VI. METALLIC ALLOYS.

(A.) ALLOYS OF TWO METALS.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
1. <i>Alloys of Ag and Au</i>	Determined with air thermometer, the general error being less than 20° C.	p.c. p.c. Ag. Au. 100 + 0	....	954	Erhard & Schertel	W. A. C. P. B. [1879], 348	
" "	" "	80 + 20	....	975	" "	" "	
" "	" "	60 + 40	....	995	" "	" "	
" "	" "	40 + 60	....	1020	" "	" "	
" "	" "	20 + 80	....	1045	" "	" "	
" "	" "	0 + 100	....	1075	" "	" "	
2. <i>Alloys of Ag and Cu</i>	Determined by calorimeter	p.c. p.c. Ag. Cu. 100·0 + 0	....	1040	W. Roberts	A. C. P. [5], 13, 118	28, 736
" "	" "	92·5 + 7·5	....	931	"	" "	" "
" "	" "	82·1 + 17·9	....	886	"	" "	" "
" "	" "	79·8 + 20·2	....	887	"	" "	" "
" "	" "	77·4 + 22·6	....	858	"	" "	" "
" "	" "	75·0 + 25·0	....	850	"	" "	" "
" "	" "	71·9 + 28·1	....	870·5	"	" "	" "
" "	" "	63·0 + 37·0	....	847	"	" "	" "
" "	" "	60·0 + 40·0	....	857	"	" "	" "
" "	" "	57·0 + 43·0	....	900	"	" "	" "
" "	" "	54·1 + 45·9	....	920	"	" "	" "
" "	" "	50·0 + 50·0	....	941	"	" "	" "
" "	" "	45·9 + 54·1	....	961	"	" "	" "
" "	" "	25·0 + 75·0	....	1114	"	" "	" "
" "	" "	0 + 100·0	....	1330	"	" "	" "
3. <i>Alloys of Au and Pt</i>	Determined with air thermometer, the general error being less than 20° C.	p.c. p.c. Au. Pt. 100 + 0	....	1075	Erhard & Schertel	W. A. C. P. B. [1879], 348	
" "	" "	95 + 5	....	1100	" "	" "	
" "	" "	90 + 10	....	1130	" "	" "	
" "	" "	85 + 15	....	1160	" "	" "	
" "	" "	80 + 20	....	1190	" "	" "	
" "	" "	75 + 25	....	1220	" "	" "	
" "	" "	70 + 30	....	1255	" "	" "	
" "	" "	65 + 35	....	1285	" "	" "	
" "	" "	60 + 40	....	1320	" "	" "	
" "	" "	55 + 45	....	1350	" "	" "	
" "	" "	50 + 50	....	1385	" "	" "	
" "	" "	45 + 55	....	1420	" "	" "	
" "	" "	40 + 60	....	1460	" "	" "	
" "	" "	35 + 65	....	1495	" "	" "	
" "	" "	30 + 70	....	1535	" "	" "	
" "	" "	25 + 75	....	1570	" "	" "	
" "	" "	20 + 80	....	1610	" "	" "	
" "	" "	15 + 85	....	1650	" "	" "	
" "	" "	10 + 90	....	1690	" "	" "	
" "	" "	5 + 95	....	1730	" "	" "	
" "	" "	0 + 100	....	1775	" "	" "	

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
4. Alloys of Bi and Cd ....	....	Bi ₂ Cd	....	146.3	Rudberg	P. A., 71, 460	J., 1, 71
5. Alloys of Bi and Pb ....	....	BiPb	....	s. 146	....	....	iii., 533
" " ....	....	"	....	s. 146 & 125	Wiedemann	A.C.P.[2], 20, 228	46, 8
" " ....	....	BiPb ₂	....	s. 180 & 125	"	"	"
" " ....	....	Bi ₂ Pb	....	s. 143	....	....	iii., 533
" " ....	....	"	....	s. 140 & 124	Wiedemann	A.C.P.[2], 20, 228	46, 8
" " ....	....	Bi ₂ Pb ₃	....	s. 163-171	....	....	iii., 533
" " ....	....	Bi ₃ Pb	....	122.4	Person	J., 1, 84	"
" " ....	....	Bi ₄ Pb	....	s. 200 & 125	Wiedemann	A.C.P.[2], 20, 228	46, 8
" " ....	....	Bi ₄ Pb ₃	....	s. 129	....	....	iii., 533
" " ....	....	Bi ₅ Pb	....	s. 170 & 120, also partially at 125-130	Wiedemann	A.C.P.[2], 20, 228	46, 8
" " ....	....	Bi ₅ Pb ₃	....	125.3	Rudberg	P. A., 71, 460	J., 1, 71
6. Alloys of Bi and Sn ....	....	BiSn	....	s. 150 and 143	Rudberg	P. A., 18, 240	v., 804
" " ....	....	BiSn ₂	....	s. 160 and 143	"	"	"
" " ....	....	BiSn ₄	....	s. 190 and 143	"	"	"
" " ....	....	Bi ₂ Sn	....	s. 190 and 143	"	"	"
" " ....	....	Bi ₂ Sn ₃	....	s. 143	"	"	"
" " ....	....	"	....	131-137	Dobereiner	Kastn. Arch. 3, 90	v., 805
" " ....	....	Bi ₃ Sn ₂	....	135.3	Person	J., 1, 84	"
" " ....	....	"	....	s. 170 and 143	Rudberg	P. A., 18, 240	v., 804
" " ....	....	Bi ₄ Sn ₃	....	136.4	"	J., 1, 71; P. A., 71, 460	"
" " ....	....	1 pt. Bi + 8 pts. Sn	....	199	Lewis	....	v., 804
" " ....	....	1 pt. Bi + 2 pts. Sn	....	166	"	....	"
" " ....	....	1 pt. Bi + 1 pt. Sn	....	138	"	....	"
7. Alloy of Cd and Sn ....	....	CdSn ₂	....	173.8	Rudberg	P. A., 71, 460	v., 805
8. Alloy of Cu and Sn ....	....	CuSn	....	abt. 400	Rieffel	C. R., 37, 454	v., 805
9. Alloy of Cr and Pb ....	....	0.25 p.c. Cr + 99.75 p.c. Pb	....	150	....	....	iii., 527
10. Alloys containing Hg (Amalgams)	....	Hg ₂ Cd	....	75	Sromeyer	....	iii., 886
" "	Potassium amalgam, containing	2.7 p.c. K	....	abt. 75	Merz and Weith	B., 14, 1445	40, 881
" "	"	3.0 "	....	85-95	" "	"	"
" "	"	3.7 "	....	160-170	" "	"	"
" "	"	4.7 "	....	175-184	" "	"	"
" "	"	6.5 "	....	198-206	" "	"	"
" "	"	9.8 "	(=Hg ₂ K)	240-245	" "	"	"
" "	"	18.2 "	....	175-185	" "	"	"
" "	"	24.6 "	....	155-170	" "	"	"
" "	"	26.0 "	....	153-160	" "	"	"
" "	"	29.8 "	....	147-152	" "	"	"
" "	Sodium amalgam, containing	3.0 p.c. Na	....	152-160	" "	"	"
" "	"	4.7 "	....	305-315	" "	"	"
" "	"	9.3 "	....	276-299	" "	"	"
" "	"	12.7 "	....	190-209	" "	"	"
" "	"	14.0 "	....	170-190	" "	"	"
" "	"	15.5 "	....	175-180	" "	"	"

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
10. <i>Alloys containing Hg (Amalgams)</i>	Sodium amalgam, containing	24.8 p.c. Na	(= HgNa ₃)	160-180	Merz and Weith	B., 14, 1445	40, 881
" "	"	29.2 "	....	175-180	" "	"	"
" "	"	34.0 "	....	168-175	" "	"	"
" "	"	37.9 "	....	152-159	" "	"	"
" "	"	HgSn	....	a. 100	Regnault	....	iii., 890
" "	"	HgSn ₂	....	a. 100	"	....	"
11. <i>Alloys of Pb and Sb</i>	These alloys usually melt about 355	....	....	....	De Jussien	C. R., 88, 1321	36, 889
" "	"	82 p.c. Pb + 18 p.c. Sb	....	260	Ledebur	W. A. C. P. B., 5, 650	
" "	"	90 p.c. Pb + 10 p.c. Sb	....	240	"	"	
12. <i>Alloys of Pb and Sn</i>	....	PbSn	....	182.2	Thomson	J., 1, 1040	
" "	....	"	....	235	Pillichody	J., 14, 279	
" "	....	"	....	241	Kupffer	A.C.P. [2], 40, 285	iii., 534
" "	....	PbSn ₂	....	182.8	Thomson	J., 1, 1040	
" "	....	"	....	196	Kupffer	A.C.P. [2], 40, 285	iii., 534
" "	....	"	....	197	Pillichody	J., 14, 279	
" "	....	PbSn ₃	....	181	"	"	
" "	....	"	....	182.5	Rudberg	J., 1, 71	
" "	....	"	....	182.8	Thomson	J., 1, 1040	
" "	....	"	....	182.8	Person	J., 1, 84	
" "	....	"	....	186	Kupffer	A.C.P. [2], 40, 285	iii., 534
" "	....	PbSn ₄	....	187	Pillichody	J., 14, 279	
" "	....	"	....	189	Kupffer	A.C.P. [2], 40, 285	iii., 534
" "	....	"	....	190	Thomson	J., 1, 1040	
" "	....	PbSn ₅	....	194	Kupffer	A.C.P. [2], 40, 285	iii., 534
" "	....	Pb ₂ Sn	....	270	Pillichody	J., 14, 279	
" "	....	Pb ₂ Sn ₃	....	210	"	"	
" "	....	Pb ₃ Sn	....	283	"	"	
" "	....	"	....	289	Kupffer	A.C.P. [2], 40, 285	iii., 534
" "	....	Pb ₃ Sn ₂	....	246	Pillichody	J., 14, 279	
" "	....	Pb ₄ Sn	....	292	"	"	
" "	....	Pb ₄ Sn ₃	....	236	Pohl	J., 3, 323	
" "	....	Pb ₅ Sn ₇	....	184.5 r.s. 181.9	"	J., 3, 324	
" "	....	1 pt. Sn + 25 pts. Pb	....	558	Tomlinson	....	iii., 535
" "	....	1 pt. Sn + 10 pts. Pb	....	541	"	....	"
" "	....	1 pt. Sn + 5 pts. Pb	....	511	"	....	"
" "	....	1 pt. Sn + 3 pts. Pb	....	482	"	....	"
" "	....	1 pt. Sn + 2 pts. Pb	....	441	"	....	"
" "	....	1 pt. Sn + 1 pt. Pb	....	370	"	....	"
" "	....	1½ pts. Sn + 1 pt. Pb	....	334	"	....	"
" "	....	2 pts. Sn + 1 pt. Pb	....	340	"	....	"
" "	....	3 pts. Sn + 1 pt. Pb	....	356	"	....	"
" "	....	4 pts. Sn + 1 pt. Pb	....	365	"	....	"
" "	....	5 pts. Sn + 1 pt. Pb	....	378	"	....	"
" "	....	6 pts. Sn + 1 pt. Pb	....	381	"	....	"

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
13. <i>Alloys of Pb and Zn</i>	16.7 p.c. Pb +83.3 p.c. Zn	....	205	Ledebur	W. A. C. P. B., 5, 650	
" "	30.5 p.c. Pb +69.5 p.c. Zn	....	190	"	"	
" "	50.0 p.c. Pb +50.0 p.c. Zn	....	202	"	"	
14. <i>Alloys of Sb and Zn</i>	10 p.c. Sb +90 p.c. Zn	....	236	Ledebur	W. A. C. P. B. 5, 650	
" "	Britannia metal	18 p.c. Sb +82 p.c. Zn	....	250	"	"	
15. <i>Alloys of Sn and Zn</i>	SnZn	....	s. 320 & 204	Rudberg	....	v., 1068
" "	Sn ₂ Zn	....	s. 280 & 204	"	....	"
" "	Sn ₃ Zn	....	s. 250 & 204	"	....	"
" "	Sn ₄ Zn	....	s. 203 & 204	"	....	"
" "	Sn ₆ Zn	....	s. 204	"	....	"
" "	Sn ₁₂ Zn	....	s. 210 & 204	"	....	"
16. <i>Alloys of Tl and one other metal</i>	Tl ₃ Al	....	White heat	Carstanjen	J. p. C., 102, 65	vi., 1083
" "	Tl ₃ Bi	....	s. 170	"	"	"
" "	Tl ₂ Cd	....	s. 184	"	"	"
" "	Tl ₂ Cu	....	White heat	"	"	"
" "	Tl ₂ Pb	....	s. above 250	"	"	"
" "	Tl ₂ Sn or Tl ₄ Sn	....	Difficult	"	"	"
" "	Tl ₂ Zn	....	s. above 360	"	"	"

(B.) ALLOYS OF THREE METALS.

1. <i>Alloys of Bi, Cd, and Pb</i>	....	Bi ₄ CdPb ₃	....	89.5	Hauer	J., 18, 236	
" " "	....	Bi ₃ Cd ₂ Pb ₇	....	95	"	"	
2. <i>Alloy of Bi, Cd, and Tl</i>	....	5 pts. Bi + 1 pt. Cd + 6 pts. Tl	....	s. 134	Carstanjen	J. p. C., 102, 65	vi., 1083
3. <i>Alloys of Bi, Pb, and Sn</i>	Homberg's fusible metal	BiPbSn	....	122	....	....	iii., 536
" " "	....	"	....	b. 100	....	....	"
" " "	Rose's fusible metal	Bi ₂ PbSn	....	93.75	....	....	i., 591
" " "	" "	"	....	95	....	....	iii., 536
Formed by pressure of 7500 ats.	" "	"	....	95	Spring	B. B. [2], 39 ;	42, 921
<i>Alloys of Bi, Pb, and Sn</i>	" "	"	....	95-98	Kopp	B., 15, 596	iii., 75 and 78
" " "	....	Bi ₂ PbSn ₂	....	145	Person	A., 93, 129	
" " "	....	Bi ₃ PbSn	....	96	"	J., 1, 72	
" " "	D'Arcet's fusible metal	Bi ₃ Pb ₃ Sn ₂	....	95	Spring	B. B. [2], 39	
" " "	Krafft's fusible metal	Bi ₅ Pb ₂ Sn	....	104	....	....	iii., 536
" " "	Lichtenberg's fusible metal	Bi ₅ Pb ₃ Sn ₂	....	91.60	....	....	i., 591
" " "	Rose's fusible metal	Bi ₇ Pb ₄ Sn ₆	....	90	Spring	A. C. P. [5], 7, 178	30, 592
" " "	Newton's fusible metal	Bi ₈ Pb ₅ Sn ₃	....	94.44	....	....	iii., 536
" " "	....	Bi ₈ Pb ₆ Sn ₃	....	97.78	....	....	"

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
<i>Alloys of Bi, Pb, and Sn</i>		$\text{Bi}_8\text{Pb}_8\text{Sn}_3$	....	109.64	....	....	iii., 536
" " "		$\text{Bi}_8\text{Pb}_8\text{Sn}_4$	....	112.20	....	....	"
" " "		$\text{Bi}_8\text{Pb}_8\text{Sn}_6$	....	116.05	....	....	"
" " "		$\text{Bi}_8\text{Pb}_8\text{Sn}_8$	....	112.10	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{10}\text{Sn}_8$	....	127.60	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{12}\text{Sn}_8$	....	130.90	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{18}\text{Sn}_8$	....	147.40	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{18}\text{Sn}_{10}$	....	149.60	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{16}\text{Sn}_{12}$	....	141.90	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{16}\text{Sn}_{14}$	....	139.70	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{16}\text{Sn}_{16}$	....	140.80	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{16}\text{Sn}_{18}$	....	144.10	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{16}\text{Sn}_{20}$	....	147.4	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{16}\text{Sn}_{22}$	....	152.80	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{16}\text{Sn}_{24}$	....	154.00	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{18}\text{Sn}_{24}$	....	152.90	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{20}\text{Sn}_{24}$	....	151.90	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{22}\text{Sn}_{24}$	....	151.80	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{24}\text{Sn}_{24}$	....	152.90	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{26}\text{Sn}_{24}$	....	158.40	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{28}\text{Sn}_{24}$	....	163.00	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{30}\text{Sn}_{24}$	....	170.50	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{32}\text{Sn}_{24}$	....	176.00	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{32}\text{Sn}_{28}$	....	165.00	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{32}\text{Sn}_{30}$	....	163.90	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{32}\text{Sn}_{32}$	....	158.40	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{32}\text{Sn}_{34}$	....	157.30	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{32}\text{Sn}_{36}$	....	158.40	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{32}\text{Sn}_{38}$	....	159.50	....	....	"
" " "		$\text{Bi}_8\text{Pb}_{32}\text{Sn}_{40}$	....	160.60	....	....	"
" " "	D'Arcet's fusible metal	$\text{Bi}_{13}\text{Pb}_8\text{Sn}_{10}$	....	abt. 90	Spring	A. C. P. [5], 7, 178	30, 592
" " "	....	36.6 p.c. Bi + 45 p.c. Pb + 18.3 p.c. Sn	....	108	Hannay	P. M. [5], 13, 234	
" " "	....	50 p.c. Bi + 25 p.c. Pb + 25 p.c. Sn	....	94	"	P. M. [5], 13, 230	
4. Alloy of Bi, Pb and Tl ....	....	6pts. Bi + 6pts Pb + 1 pt. Tl	....	s. 130	Carstanjen	J. p. C., 102, 65	vi., 1083
5. Alloy of Bi, Sn, and Tl ....	....	2pts. Bi + 1 pt. Sn + 1 pt. Tl	....	s. 115	"	"	"
6. Alloys of Pb, Sn, and Zn....	....	\text{PbSn_6Zn}	....	Solidifying points. a. b. c. 168 171 204	Svanberg	J. [1847-48], 72	iii., 538
" " "	....	\text{PbSn_9Zn}	....	168 178 183	"	"	"
" " "	....	$\text{Pb}_2\text{Sn}_9\text{Zn}$	....	168 — —	"	"	"
" " "	....	"	....	168 — —	Rudberg	J., 1, 72	"
" " "	....	$\text{Pb}_2\text{Sn}_{11}\text{Zn}_3$	....	168 — 182	Svanberg	J. [1847-48], 72	iii., 538
" " "	....	$\text{Pb}_2\text{Sn}_{12}\text{Zn}$	....	168 — 178	"	"	"
" " "	....	$\text{Pb}_3\text{Sn}_{12}\text{Zn}$	....	168 172 —	"	"	"
" " "	....	$\text{Pb}_4\text{Sn}_{18}\text{Zn}$	....	168 172 178	"	"	"
" " "	....	$\text{Pb}_6\text{Sn}_{21}\text{Zn}$	....	168 — 175	"	"	"
" " "	....	$\text{Pb}_{10}\text{Sn}_{33}\text{Zn}$	....	168 — 178	"	"	"

(c.) ALLOYS OF FOUR METALS.

Name.	Remarks.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
1. <i>Alloys of Bi, Cd, Pb, and Sn</i>	....	\text{Bi_2CdPbSn}	....	68.5	Hauer	J., 18, 236	
	....	$\text{Bi}_4\text{CdPb}_2\text{Sn}_2$	....	68.5	"	"	
" " "	Wood's fusible metal	$\text{Bi}_4\text{Cd}_2\text{PbSn}_2$	....	80	Spring	A. C. P. [5], 7, 178	30, 593
" " "	....	$\text{Bi}_5\text{Cd}_3\text{Pb}_4\text{Sn}_4$	....	67.5	Hauer	J., 18, 236	
" " "	....	$\text{Bi}_{10}\text{Cd}_4\text{Pb}_5\text{Sn}_5$	....	65.5	"	"	
" " "	Lipowitz's alloy	$\text{Bi}_{11}\text{Cd}_4\text{Pb}_6\text{Sn}_5$	....	abt. 70	Spring	A. C. P. [5], 7, 178	30, 593
" " "	" "	15 pts. Bi + 3 pts. Cd + 8 pts. Pb + 4 pts. Sn	....	60-65.5	Hauer	J. [1860], 684; [1862], 113	
" " "	Wood's fusible metal	4 Bi + 1 Cd + 2 Pb + 1 Sn	....	60.5	Roscoe and Schor- lemmer	T. C., 2, 334	
" " "	" "	4 Bi + 1 Cd + 2 Pb + 1 Sn	....	65	Spring	B., 15, 596	42, 921
Formed by pressure of 7500 ats.	" "	4 Bi + 1 Cd + 2 Pb + 1 Sn	....	70	"	"	"
<i>Alloys of Bi, Cd, Pb, and Sn</i>	" "	4 Bi + 1 Cd + 2 Pb + 1 Sn	....	65.5-70	Hauer	J. [1860], 684; [1862], 113	
" " "	" "	7 or 8 Bi + 1 or 2 Cd + 4 Pb + 2 Sn	....	66-71	Wood	....	iii., 75
" " "	" "	(?)	....	75	Nencki and Giacosa	J. p. C. [2], 20, 34	36, 1046
" " "	" "	16 Bi + 2 Cd + 11 Pb + 3 Sn	....	76.5	Hauer	J., 18, 236	
2. <i>Alloy of Bi, Hg, Pb, and Sn</i>	D'Arcet's alloy + Hg.	$\text{Bi}_8\text{Hg}_2\text{Pb}_5\text{Sn}_3$	....	45	....	....	iii., 537

VII. ALLOYS OF COMPOUNDS.

(A.) ALLOYS OF TWO COMPOUNDS.

Composition.	Remarks.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
AgI + Cu ₂ I ₂	514	Carnelley & O'Shea	45, 410	
2AgI + Cu ₂ I ₂	496	" "	"	
3AgI + Cu ₂ I ₂	494	" "	"	
4AgI + Cu ₂ I ₂	493	" "	"	
12AgI + Cu ₂ I ₂	514	" "	"	
AgI + PbI ₂	350	" "	"	
AgBr + AgNO ₃	s. 182	Schnauss & Kremers	J. [1855], 419	iv., 104
AgI + AgNO ₃	94	" "	J. [1855], 429	iv., 105
AgI + 2AgNO ₃	105	....	....	iv., 165
AgNO ₃ + KNO ₃	s. 169-121	Maumené	C. R., 97, 45	46, 3
AgNO ₃ + 1.68KNO ₃	s. 191-131	"	"	"
AgNO ₃ + NaNO ₃	s. 251.5	"	"	"
AgNO ₃ + 2NaNO ₃	s. 263	"	"	"
Ba(NO ₃) ₂ + 2NaNO ₃	s. 322-288	"	C. R., 97, 1215	46, 384
Ca(NO ₃) ₂ + 2NaNO ₃	s. 235-216	"	C. R., 97, 45	46, 3
100 p.c. KNO ₃ + 0 p.c. NaNO ₃	s. 338.3	Schaffgotsch	P. A., 102	
90 " +10 "	s. 311	"	"	
80 " +20 "	s. 280	"	"	
70 " +30 "	s. 250	"	"	
60 " +40 "	s. 230	"	"	
54.3 " +45.7 "	=(KNO ₃ + NaNO ₃)	....	s. 225.6	"	"	
50 " +50 "	s. 229	"	"	
40 " +60 "	s. 244	"	"	
30 " +70 "	s. 262	"	"	
20 " +80 "	s. 281	"	"	
10 " +90 "	s. 298	"	"	
0 " +100 "	s. 313	"	"	
KNO ₃ + 2NaNO ₃	s. 242-224	Maumené	C. R., 97, 45	46, 3
KNO ₃ + 3NaNO ₃	s. 267-237	"	"	"
2KNO ₃ + NaNO ₃	s. 265-244	"	"	"
3KNO ₃ + NaNO ₃	s. 265-247	"	"	"
KNO ₃ + NH ₄ NO ₃	s. 230	"	C. R., 97, 1215	46, 385
53.14 p.c. KNO ₃ + 46.86Pb(NO ₃) ₂	207	Guthrie	P. M. [5], 18, 112	
2NaNO ₃ + Pb(NO ₃) ₂	(or else equal weights)	....	s. 282	Maumené	C. R., 97, 1215	46, 384

(B.) ALLOYS OF THREE COMPOUNDS.

AgCl + AgBr + AgI ...	....	....	295	Rodwell	P. R. S.	
" " ....	....	....	331	Carnelley & O'Shea	45, 410	
AgCl + AgBr + 2AgI ....	....	....	320	Rodwell	P. R. S.	
" " ....	....	....	326	Carnelley & O'Shea	45, 410	
AgCl + AgBr + 3AgI ....	....	....	330	Rodwell	P. R. S.	
" " ....	....	....	354	Carnelley & O'Shea	45, 410	
AgCl + AgBr + 4AgI ....	....	....	350	Rodwell	P. R. S.	
" " ....	....	....	380	Carnelley & O'Shea	45, 410	
2AgCl + 2AgBr + AgI ....	....	....	330	Rodwell	P. R. S.	
" " ....	....	....	383	Carnelley & O'Shea	45, 410	
AgNO ₃ + KNO ₃ + NaNO ₃ ....	....	....	s. 190-130	Maumené	C. R., 97, 45	46, 3
NH ₄ NO ₃ + KNO ₃ + NaNO ₃ ....	....	....	136-137	"	C. R., 97, 1215	46, 384
2KNO ₃ + 2NaNO ₃ + Pb(NO ₃) ₂	(or equal weights ?)	....	s. 259	"	"	"

PART II.

ORGANIC COMPOUNDS.

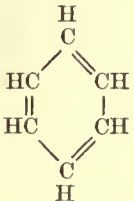
I. COMPOUNDS CONTAINING TWO ELEMENTS.

(1.) CH.

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Kaenlite ....	....	(CH) _n	....	108	Trommsdorff	A., 21, 126	iii., 448
" ....	....	"	....	114	Kraus	P. A., 43, 141	"
Polystyrol ....	....	"	....	117	Engler and Leist	B., 6, 256	26, 901
Rose oil ....	....	(CH ₂) _n	(272-275)	32.5	Flückiger	Z. C. [2], 6, 126	vi., 999
(?)	....	"	280-300	35	....	A., 7, 155	"
Reichenbach's paraffin ....	....	"	....	43-44	Hell and Hermanns	B., 13, 1716	40, 250
" "	....	"	....	44-45	Hell	B., 13, 1710	40, 249
(?)	....	"	a. 300	85-86	....	J. [1847-48], 736	"
Scheelerite ....	....	(CH ₄) _n (?)	abt. 100	44	Dana	Mineralogy	v., 204
Acetylene	CH : CH	C ₂ H ₂	Cond. at 18 (83 ats.)	....	Cailletet	C. R., 85, 851	34, 20
Ethylene (olefiant gas)	CH ₂ : CH ₂	C ₂ H ₄	....	b. -110	Faraday		
" "	"	"	-102 to -103 (760)	....	Wroblewski and Olszewski	C. R., 96, 1140	44, 781
" "	"	"	-105 (760)	....	(?)	(?)	"
" "	"	"	-102 (760)	....	Olszewski	M. C., 5, 127	46, 816
" "	"	"	Cond. at 10 (63 ats.)	....	Cailletet	C. R., 94, 1224	42, 914
" "	"	"	Cond. at 8 (56 ats.)	....	"	"	"
" "	"	"	Cond. at 4 (50 ats.)	....	"	"	"
" "	"	"	Cond. at 1 (45 ats.)	....	"	"	"
" "	"	"	13 c.t.	....	"	"	"
Etherin ....	....	(C ₂ H ₄) _n	260	110	....	....	ii., 507
Etherol ....	....	"	280	b. -35	Serullas	A. C. P. [2], 39, 178	"
Paraffin from Boghead coal	....	"	....	80	Galletly	C. N., 24, 187	24, 1183
" " Idrialite ....	....	(C ₃ H ₂) _n	....	86	Boedeker	A., 52, 100	iii., 242
" " "	....	"	....	100	"	"	"
Trimethylene....	CH ₂ CH ₂ CH ₂	C ₃ H ₆	Gas	....	....	J. p. C. [2], 26, 367	"
Propylene ....	....	"	-18	....	....	....	vi., 710
"	CH ₂ : CH.Me.	"	143 (sic)	....	Reboul	C. R., 78, 1773	27, 977
"	iso-	"	Does not cond. -140	....	....	....	v., 892
Propane ....	....	C ₃ H ₈	-25 to -30	....	Lefebvre	J., 21, 329	"
" ....	....	"	Cond. -17	....	....	A. 150, 209	"
Crotonylene	CH ₃ .CH : C : CH ₂	C ₄ H ₆	18	....	Caventou	A., 127, 347	ii., 965
"	"	"	18	....	Butlerow	C. C. [1871], 89	24, 215
Ethylacetylene	CH : C.Et	"	18	....	....	B., 8, 412	"
Divinyl	C ₂ H ₃ .C ₂ H ₃	"	abt. 20	....	Pfankuch	J. P. C. [2], 6, 113	vii., 656 ; 26, 363
Caoutchene ....	....	C ₄ H ₈	14.5	-10	Boucharlat	A., 27, 33	i., 736
Butylene ....	....	"	Cond. -40	....	Puchot	C. R., 85, 757	34, 20
" ....	....	"	b. 0	....	Faraday	P. T. [1825], 440	v., 738
"	CH ₃ .CH ₂ .CH : CH ₂	"	-5	....	Wurtz	A., 152, 21	vi., 377
"	"	"	-4	....	Puchot	A. C. P. [5], 28, 507	46, 167
"	CH ₃ .CH : CH.CH ₃	"	3	Crystallizes b. -18	De Luyères	....	v., 738 ; vi., 710
" ....	....	"	12-14	....	Chapman	J., 20, 581	"
Isobutylene	Me ₂ C : CH ₂	"	-6	....	Butlerow	Z. C. [2], 6, 238	vii., 223
"	"	"	-7 to -8	....	"	"	"
"	"	"	-8 (752) ; 15-18 (2 to 2½ ats.)	....	"	....	vi., 376
Methylallyl	Me.(CH) ₂ Me or $\begin{array}{c} \text{CH}_2 \\ | \\ \text{CH}_2 \end{array} \text{CH.Me}$	"	-4 to +8	....	Wurtz	B. S. C. [2], 8, 265	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Butane	Me.(CH ₂) ₂ Me.	C ₄ H ₁₀	1	Liquid	Schorlemmer	P. R. S., 16, 367	24, 896; vii., 891
"	"	"	1	....	Goldstein	B., 12, 690	36, 766
"	"	"	3 (2½ ats.)	....	....	G. H., 109	
" ....	....	"	abt. 0	....	Pelouze & Cahours	J., 16, 524	iii., 181
" ....	....	"	abt. 0	....	Lefebvre	J., 21, 329	
" ....	....	"	0-4	....	Ronalds	18, 54	v., 735
" ....	....	"	5-10	....	Pelouze & Cahours	A. C. P. [4], 1, 5	"
"	Et.Et.	"	-23	....	....	....	ii., 524
Isobutane	(CH ₃) ₂ CH.CH ₃	"	-17	....	....	A., 144, 10	
"	" (?)	" (?)	-10	....	Konovloff	B. S. C. [2], 34, 333	40, 400
Carbopetrocene ....	....	(C ₅ H ₂) _a or (C ₆ H ₂) _a	....	200-238	Prunier	A. C. P. [5], 17, 5	36, 1027
Valylene ....	....	C ₅ H ₆	45-50	....	Reboul	A., 135, 372	v., 982
" ....	....	"	abt. 50	....	"	J., 18, 510	"
Pirylene ....	....	"	60	Liquid	Ladenburg	B., 15, 1024	42, 983
(?) ....	....	C ₅ H ₅ or C ₁₀ H ₁₂	119	....	Engler and Leist	B., 6, 255	26, 901
Isoprene	CH ₂ :CMe.CH:CH ₂	C ₅ H ₈	35	....	Tilden	C. N., 46, 120	44, 75
"	"	"	37	....	"	"	45, 413
"	"	"	37-38	....	Williams	P. R. S., 10, 516; B. S. C., 24, 112	iii., 433
Propylacetylene	CPr ^α :CH	"	48-49	Liquid	Bruylants	B., 8, 411	C. R., 72, 1192
Isopropylacetylene	CPr ^β :CH	"	28-29 (751)	Liquid	Flawitzky & Kriloff	B., 11, 1939	36, 134
"	"	"	abt. 35	....	Henry	B., 7, 760	27, 975
"	"	"	35	....	Eltekoff	B., 10, 707	
Methylethylacetylene	Et.C:C.Me	"	51	....	H. Eltekoff	B. S. C. [2], 39, 210	34, 563
Valerylene	CMe ₂ :C:CH ₂	"	44-46 (745)	....	Reboul	A., 131, 238; J., 17, 506	v., 982
" ....	....	"	41-42	....	Buff	A., 4th Supp., 147	
" ....	....	"	abt. 50	....	Friedel	A. C. [4], 16, 366	vii., 1022
" ....	....	"	43-47	....	Bruhl	A., 200, 139	38, 296
" ....	....	"	45-50	....	Bouchardat	C. R., 90, 1560	38, 710
" ....	....	"	34	....	Flawitzky & Kriloff	B. S. C. [2], 27, 347	34, 20
" ....	....	"	28-30	....	"	"	"
Piperylene	CMe ₂ :C:CH ₂ (?)	"	42	Liquid	Hofmann	B., 14, 665	40, 621
Pentine (from resin spirit) ....	....	"	50	....	Couerbe	J. p. C., 18, 165	41, 168
(?) ....	....	(C ₅ H ₈) _a	103-104 (?)	....	Tilden	B., 13, 1605	
" (from oil of erigeron canadense) ....	....	"	175-177	....	Vigier and Cloez	J. Pharm. [5], 4, 333	42, 64
(?) ....	....	"	245-247	....	Tilden	B., 13, 1605	
Oil of poplar buds ....	....	C ₅ H ₈	260-261 c.	....	Piccard	B., 6, 890	26, 1237
Tekoretin ....	....	(C ₅ H ₈) _a	abt. 350	45	Forchammer	A., 41, 39	v., 707
Propylethylene	Pr ^α CH:CH ₂	C ₅ H ₁₀	39-40	....	Schorlemmer	P. T. [1872], 111	25, 1085
"	" (?)	"	42	....	Kekulé	A., 179, 340	29, 546
"	"	"	35-37	....	Zeidler	A., 197, 253	36, 908
"	"	"	32-39	....	Wurtz	A., 123, 202	vi., 117
Isopropylethylene	Pr ^β .CH:CH ₂	"	20.2 (749)	....	Flawitzky	B., 11, 992	36, 37
"	"	"	25	....	"	B., 6, 562 and 1254; A., 179, 340; A., 169, 205	26, 1013, and 27, 241; 29, 545; 27, 139
"	"	"	25	....	Lebedew	B., 8, 767	29, 894
"	"	"	21.1-21.3	....	Wischnegradsky & Flawitzky	A., 190, 328; B., 10, 406; J. R. C. S., 9, 198	32, 420
"	"	"	21.5	....	A. Wischnegradsky	C. R., 86, 973	34, 717
"	"	"	34	....	Buff	A., 4th Spl., 143	vi., 117
"	"	"	35-38	....	Etard	C. R., 86, 448	34, 393
Ethylmethylethylene	Et.CH:CH.Me	"	36 (740)	....	G. Wagner and A. Saytzeff	A., 175, 373	28, 628
"	"	"	36	....	Fittig	A., 200, 30	28, 376

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethylmethylethylene	.... CMeEt : CH ₂	C ₅ H ₁₀	21-22	....	A. Wischnegradsky	A., 190, 354	34, 394
"	"	"	25	....	Wischnegradsky	C. C. [1876], 595	32, 286
Trimethylethylene	.... Me ₂ C : CHMe	"	abt. 33	....	Zeidler	A., 186, 245	32, 421
"	"	"	35	....	Ermolaïen	Z. A. [2], 7, 275	vii., 64 ; 24, 1036
"	"	"	36	....	Wischnegradsky	A., 190, 365 ; C. R., 86, 973	34, 394 and 717
"	"	"	35	....	Flawitzky	A., 169, 206	27, 139
"	"	"	35	....	"	A., 179, 340	29, 545
"	"	"	35-37	....	Perkin	45, 448	
"	"	"	36 (749-7)	....	Flawitzky	A., 179, 340	29, 546
Amylene	....	"	22-23	....	Zeidler	A., 186, 245	32, 421
"	....	"	39	....	Balard	A. C. P. [3], 12, 321	i., 208
"	....	"	30-35.5	....	Buff	A., 4th Supp., 129	
"	....	"	35	....	Bauer	J., 14, 660	vi., 710
"	....	"	28-30	....	Buff	J. 21, 334	A., 148, 349
"	....	"	39-40	....	Schorlemmer	....	vii., 63
"	....	"	35	....	W. Ramsay	35, 469	35, 469
"	....	"	30-40	....	Le Bel	C. R., 75, 267	25, 886
"	....	"	35-40	....	Rénard	A. C. P. [6], 1, 223	46, 843
"	....	"	34.5-35.6	....	....	Z., 4, 229	
"	....	"	38 u. c.	....	Claus & Rautenberg	B., 14, 623	
"	....	"	38, 201 c. t.	....	Pawlewski	B., 16, 2633	46, 252
"	Identical	"	35	....	Flawitzky	B., 6, 562 ; A., 179, 340	26, 1014 ; 29, 546
"	"	"	35	....	Frankland	A., 4th Supp., 129	3, 31 ; 29, 546
"	"	"	35	....	Mendeljeff	A., 179, 340	29, 546
"	"	"	42	....	Kekulé	A., 4th Supp., 129	i., 208
"	Mixture ?	"	35	....	O. and F. Zeidler	A., 197, 243	36, 908
"	....	"	35 (744)	....	Brühl	A., 200, 139	38, 296
"	....	"	28-37	....	Hartley	....	39, 154
"	....	"	35-37	....	....	A., 165, 7	
" (?)	....	(C ₅ H ₁₀) _n	230	....	A. Staw	C. R., 86, 488	34, 393
" (?)	....	"	300	....	"	"	"
" (?)	....	"	350	....	"	"	"
Pentane	.... CH ₃ .(CH ₂) ₃ .CH ₃	C ₅ H ₁₂	39	....	Goldstein	J. R. C. S., 1882, 45 ; B., 12, 690	42, 374 ; 36, 766
"	"	"	37-39	....	Schorlemmer	P. R. S., 16, 367 ; P. T. [1872], 111	vii., 63, 891 ; 24, 896, 1026
"	"	"	37	....	Lachowicz	A., 220, 188	46, 166
"	"	"	35-37 u. c.	....	Thorpe and Young	B., 5, 558	vii., 892
"	"	"	35	....	Hofmann	B., 16, 590	
"	"	"	36-36.5	....	Perkin	45, 445	
"	"	"	39-40	....	Schorlemmer	15, 421	iii., 181
"	From colophony	"	35-38	....	Renard	A. C. P. [6], 1, 223	46, 843
"	"	"	33-38	....	"	C. R., 95, 1386	44, 599
"	....	"	34	....	Schorlemmer	P. R. S., 15, 131	vi., 107
"	....	"	32-35	....	Cahours & Demarçay	C. R., 80, 1569	
Isopentane	.... (Me) ₂ .CH.CH ₂ .Me	"	29-32 c.	....	Perkin	45, 445	
"	"	"	30	....	....	A., 74, 55	i., 204
"	"	"	30.5	....	Goldstein	J. R. C. S. [1882], 45	42, 374
"	"	"	30	....	Beilstein and Kur- batow	B., 14, 1620	
"	"	"	28-30	....	Wurtz	....	iii., 181
"	"	"	30	....	Pelouze & Cahours	J., 16, 527	vi., 115 ; iii., 181
"	"	"	30	....	Schorlemmer	P. R. S., 16	vi., 709
"	"	"	30	....	Lachowicz	A., 220, 188	46, 166
"	"	"	30 (734)	....	Frankland	3, 31	26, 679
"	"	"	30	....	Just	A., 220, 146	46, 169
"	"	"	31, 194.8 c. t.	....	Pawlewski	B., 16, 2633	46, 252
"	"	"	....	i. -21	....	G. H., 110	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tetramethylmethane	CMe ₄	C ₅ H ₁₂	9.5	s. -20	Lwow	Z. C., 13, 521 ; Z. C., 14, 257	vii., 63, 1037 24, 1026
" (impure ?)	"	"	....	l. -30	"	Z. C., 14, 257	"
"	C.(Me) ₄	"	9	....	Ladenburg	A., 164, 300	28, 50
Eupione ....	....	"	47	b. 20	Reichenbach & Hesse	A., 13, 217 ; A., 23, 247	ii., 608
Carbopetrocene ....	....	(C ₆ H ₂) _n or (C ₅ H ₂) _n (C ₆ H ₄) _n	....	200-238	Prunier	A. C. P. [5], 175	36, 1027
(?)	....	....	91	....	Church	14, 76	iv., 415
Benzene		C ₆ H ₆	80	5.5	Kopp	....	i., 542
" ....	....	"	80.4 (760)	....	"	P. A., 72 ; 1, or 223	iv., 2
"	"	"	80	....	W. Ramsay	35, 469	39, 64
"	"	"	80	....	Pictet	P. M. [5], 1, 484	32, 163
"	"	"	81	....	P. Jannasch	A., 176, 283	28, 889
"	"	"	79.5 (747 r.)	....	Naumann	B., 10, 1422	34, 48
"	"	"	79.3 (739)	....	Brühl	A., 200, 139	38, 296
"	"	"	80.5	....	Hartley	39, 162	
"	"	"	81	....	Berthelot and Ogier	C. R., 91, 781	40, 719
"	"	"	80-81	....	Mansfield	J., 1, 711	
"	"	"	82	s. 3	Freund	A., 120, 81	
"	"	"	80.8	....	Church	P. M. [4], 11, 256 ; P. M. [4], 13, 415 ; J., 17, 531 ; P. M. [4], 18, 522	
"	"	"	80.1	....	Warren	J., 18, 515	
"	"	"	80.5	3	Jungfleisch	C. R., 64, 911	
"	"	"	80.36 (760)	4.45	Regnault	G. J. C. [1863] ; M. A. S., 26, 658	
" ....	"	"	....	s. 0	Ladenburg	G. J. C., 1871	
"	"	"	80 (764)	....	Schiff	G. J. C., 1881	
"	"	"	79.2	....	Schall	B., 16, 3012	46, 551
"	"	"	78.8 c.	....	Meyer	B., 15, 2893	44, 315
"	"	"	80	....	Dumreicher	B., 15, 33	42, 606
"	"	"	82	....	Henry	B., 6, 957	
"	"	"	86	5.5	Faraday	P. T., 1825, 440	
"	"	"	86	7	Mitscherlich	A., 9, 43	
"	"	"	280.6 c. t.	....	Sajotschewsky	W. A. C. P. B. [1879], 741	45, 138
"	"	"	291.7 c. t.	....	Ramsay	45, 138	
Dipropargyl	CH : C.(CH ₂) ₂ C : CH	"	abt. 85 u. c.	Liquid	Henry	B., 6, 957	vii., 1008 ; 26, 1215
"	"	"	82-86 u. c. ; 85 c.	....	"	J. P. C. [2], 8, 54	27, 351
"	"	"	85	Liquid	"	B., 5, 456	vii., 49 ; 25, 687
"	"	"	85	....	Berthelot and Ogier	C. R., 91, 781	40, 719
" (polymer) ....	....	(C ₆ H ₆) _n	....	100	Henry	B., 14, 402	40, 565
Parabenzene ....	....	"	97.5	b. -20	Church	P. M. [4], 13, 415 ; 18, 522	iv., 340
Könlite ....	....	"	....	107.5	Trommsdorff	A., 21, 126	
" ....	....	"	....	114	Kraus	P. A., 43, 141	
Diallylene ....	....	C ₆ H ₈	70	....	L. Henry	C. R., 87, 171	36, 34
Hexon ....	....	"	80-85	....	....	J. p. C., 18, 165	
(?)	....	"	85.5	....	....	A., 6, 257	
(?)	....	"	222	....	Abeljan	B., 9, 10	29, 703
Diallyl	CH ₂ : CH.(CH ₂) ₂ .CH : CH ₂	C ₆ H ₁₀	59	....	Berthelot and Luca	J., 1, 590	i., 140
"	"	"	59.1 ; 234.4 c. t.	....	Palewski	B., 16, 2634	46, 252

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diallyl....	$\text{CH}_2 : \text{CH} . (\text{CH}_2)_2 \text{CH} : \text{CH}_2$	C_6H_{10}	59	....	Oppenheim	B., 4, 672	
"	"	"	58-59.5	....	Buff	A. 4th Supl., 145	vi., 92
"	"	"	58-60	....	Wagner & Tollens	B., 6, 590	vii., 46; 26, 1122
"	"	"	58-60	....	Henry	B., 6, 956	
"	"	"	59.3	....	Brühl	A., 200, 139	38, 296
"	"	"	58-59.5	....	Zander	A., 214, 148	
Hexoylene	....	"	76-80	....	Reboul & Truchot	A., 144, 247; J., 20, 587	
"	....	"	80-85	....	....	A., 135, 127	
Hexine (from benzene)	....	"	abt. 80	....	....	A., 139, 251	vi., 697
"	....	"	80	....	Michael Saytzeff	A., 185, 157	32, 299
" (from mannite)	$\text{Me} . \text{C} : \text{C} . \text{Pr}^a$	"	80-83	l. at - 20	Hecht	B., 11, 1050	34, 717
Hartite	....	"	....	74	Rumpf	J. P. C., 107, 189	vii., 594
"	....	"	....	74	Haidinger	P. A., 54, 261	iii., 14
Hexylene (butylethylene)	$\text{Me} . (\text{CH}_2)_3 \text{CH} : \text{CH}_2$	C_6H_{12}	60-70	....	Schorlemmer	P. T. [1872], 111	vii., 645; 25, 1085
"	"	"	71	....	Williams	P. T. [1857], 737; A., 108, 385	iii., 147
"	"	"	68-70	....	T. M. Morgan	28, 301	
" (methylpropylethylene)	$\text{Me} . \text{CH} : \text{CH} . \text{Pr}^a$	"	67 (739.5)	....	Hecht and Strauss	A., 172, 64	27, 782
"	"	"	67.8-68 (760)	....	Hecht	B., 11, 1152	
"	"	"	68-70	....	....	....	iii., 147
"	"	"	68-70	....	Wanklyn and Erlenmeyer	J., 16, 52	vi., 699
"	"	"	68-70	....	Carius	A., 131, 323	"
"	"	"	68-70	....	Pelouze & Cahours	J., 16, 526	vi., 710
" (dimethylethylene)	$(\text{Me})_2 \text{C} : \text{C} . \text{H} . \text{Et}$	"	65-67	....	Jawein	B. S. C. [2], 30, 26; A., 195, 253	34, 961
"	....	"	64-65	....	Warren and Storer	J., 21, 331	
" (dimethylethylene)	$\text{Me} . \text{CH} : \text{C} . \text{Me} . \text{Et}$	"	69-71	....	Jawein	B. S. C., 27, 30, 26	"
"	$(\text{Et})_2 \text{C} : \text{CH}_2$ or $\text{Me} . \text{CH} : \text{C} . \text{Me} . \text{Et}$	"	68-72	....	Tschaikowsky	B., 5, 330	25, 1087
" (tetramethylethylene)	$\text{Me}_2 . \text{C} : \text{C} . \text{Me}_2$	"	73	....	Rizza	J. R. C. S. [1882], 99	42, 491
"	"	"	72-73	....	(?)	(?)
"	"	"	73	....	A. Pawlow	B., 11, 513	34, 562
"	"	"	73	....	Eltekoff	J. R. C. S. [1882], 355; B., 16, 398	44, 567
"	" (?)	"	60-70	....	Friedel	Z. C. [2], 5, 485	vi., 946
"	" (?)	"	70	....	Friedel and Silva	C. R., 76, 226	vii., 982; 26, 489
"	" (?)	"	72-74	....	Kaschirsky	B., 11, 984; C. C. [1881], 278	36, 46; 42, 37
"	....	"	65-66	....	Hecht	A., 165, 146	
"	....	"	65-66	....	"	"
"	....	"	60-70	....	Wurtz	....	vi., 699
"	....	"	69.5-71	....	....	A., 195, 259	
"	....	"	68-70	....	Wurtz	J. [1864], 572	"
"	....	"	68-71	....	Geibel and Buff	J., 21, 336	
"	Mixture	"	67-70	....	Rénard	A. C. P. [6], 1, 223	46, 843
"	....	"	67-68	....	Lieben	A., 178, 1	29, 60
Dipropylene	....	"	70-80	....	Prunier	C. R., 76, 98; A., 145, 72	vii., 1016; 26, 487
Hexylidine	$\text{Me} . (\text{CH}_2)_4 \text{CH}$	"	68-71	....	....	....	vi., 699
Hexahydrobenzene	....	"	69	....	Wreden	A., 187, 163	32, 445
From Caucasian petroleum	....	"	210-215	....	Beilstein and Kurbatow	B., 13 [1820]	40, 159
Hexylene (condensed)	....	$(\text{C}_6\text{H}_{12})_n$	193-197	....	Jawein	B. S. C., 27, 30, 26	34, 961
"	....	"	196-199	....	"	"	"
Hexane (dipropyl) from various sources	$\text{Me} . (\text{CH}_2)_4 . \text{Me}$	C_6H_{14}	69-70	....	Schorlemmer	P. R. S., 16, 367	vii., 891; 24, 896
"	"	"	69.5	....	"	"	"
"	"	"	69-70	....	"	"	"
"	"	"	71.5	....	"	"	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hexane (dipropyl)	Me.(CH ₂) ₄ .Me	C ₆ H ₁₄	70·6	....	Goldstein	J. R. C. S. [1882], 45	42, 374
" "	"	"	69-70	....	Schorlemmer	P. T. [1872], 111	vii., 645 ; 25, 1085
" "	"	"	71·5	....	"	"	"
" "	"	"	68·3	....	Bruhl	A., 200, 139	38, 296
" "	"	"	68-70 c.	....	Perkin	45, 445	
" "	"	"	68-70	....	T. M. Morgan	28, 301	
" "	"	"	68·3-71	....	Zander	A., 214, 165	
" "	"	"	69-71	....	Schorlemmer	A., 161, 275	
" "	"	"	68-70	....	Cahours & Demarçay	C. R., 80, 1570	
" "	"	"	68, 250·3 c.t.	....	Pawlewski	B., 16, 2634	46, 252
" "	"	"	69·5	....	Dale	J., 17, 381	
" "	"	"	68	....	Williams	J., 10, 418	iii., 153
" "	"	"	70	....	Lachowicz	A., 220, 188	46, 166
" "	"	"	67-68	....	Thorpe and Young	B., 5, 556	vii., 892 ; 25, 803, 982
" "	"	"	Chiefly 70	....	Linnemann	W. A. [2 Ab.], 63, 255	....
" "	"	"	69	....	Berthelot	C. R., 85, 831	34, 48
" "	"	"	68	....	Bouchardat	C. R., 76, 809	iii., 153
" "	"	"	68·5-70	....	Wanklyn & Erlenmeyer	J., 16, 521	
" "	"	"	68	....	Pelouze & Cahours	J., 15, 410	iii., 181
" "	"	"	68·5	....	Warren and Storer	J., 21, 331	
" "	"	"	68-70	....	Schorlemmer	J., 15, 386 ; 15, 422	iii., 181
Isohexane (propylisopropyl)	CHMe ₂ .CH ₂ .CH ₂ .Me	"	62	....	Wurtz	A. C. P. [3], 44, 275	ii., 525
" "	"	"	62	....	Schorlemmer	P. R. S., 16	vi., 709
" "	"	"	59-62	....	Perkin	45, 445	
" "	"	"	62	....	Goldstein	J. R. C. S. [1882], 45	42, 374
" (diethylmethylmethane)	CHMeEt ₂	"	64	Liquid	Wislicenus	A., 219, 307	
" "	"	"	60	....	....	B. S. C., 25, 546	
" "	"	"	64-66	....	Rénard	A. C. P. [6], 1, 223	46, 843
" "	"	"	60-64	....	Wurtz	J., 16, 509	iii., 181
" "	"	"	61·3	....	Warren	J., 21, 330	
" "	"	"	60·8	....	Ramsay	35, 469	
" "	"	"	60	....	Lachowicz	A., 220, 188	46, 166
" (diisopropyl)	Me ₂ .CH.CHMe ₂	"	58	....	Schorlemmer	P. R. S., 16, 35	v., 887 ; vi., 709
" "	"	"	58	....	Zander	A., 214, 167	
" "	"	"	59	Liquid	Bouchardat	C. R., 76, 809	25, 410 ; vii., 646
Hexane (trimethylethylmethane)	(Me) ₃ C.Et	"	43-48	Liquid	Butlerow & Gerainow	A., 165, 107 ; B. S. C. [2], 18, 124	vii., 1183 ; 25, 1092
" "	"	"	43-48	Liquid	Gerainow	B., 5, 479	26, 43
" "	"	"	48-52	....	Gladstone	45, 244	
" "	"	"	53-60	....	"	"
" "	"	"	abt. 58	....	Riche	J. [1860], 249	iv., 177
" (?)	"	"	76	....	"	A., 133, 105	v., 449
" (?)	"	"	78	....	"	A. C. P. [3], 59, 426	
" (?)	"	"	135-140	....	Weyl	Z. C. [2], 4, 496	vi., 387
Action of heat on American petroleum	"	C ₆ H ₁₆ (sic) (C ₇ H ₄) _n	....	119	Prunier	A. C. P. [5], 17, 47	36, 1027
Tolylene	....	C ₇ H ₆	240-250	....	Marker	A., 136, 75	v., 859
Toluene	....	C ₆ H ₅ .CH ₃	103·7	b. -20	Church	J., 17, 531	i., 573
" "	"	"	114	....	Gerhardt	A. C. P. [3], 14, 111	i., 573 ; iv., 2
" "	"	"	111, 320·8 c.t.	....	Pawlewski	B., 16, 2634	46, 252
" "	"	C ₇ H ₈	111	....	Tollens and Fittig	A., 131, 304	iv., 486
" "	"	"	110·3 c.	Warren	J. [1865], 525	v., 852
" "	"	"	111	"	vi., 278
" "	"	"	111	Rénard	A. C. P. [6], 1, 223	46, 843
" "	"	"	110-112	W. R. Hodgkinson	33, 497 and 499	

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Toluene	$C_6H_5.Me.$	C_7H_8	111	W. Ramsay	35, 469
"	"	"	110-112	Tommasi	27, 313	
"	"	"	111	Liquid	P. Jannasch	A., 176, 283	28, 889
"	"	"	108.5 (749.5 r.)	....	Naumann	B., 10, 1425	34, 48
"	"	"	110-112	....	G. Ciamician	B., 11, 270	34, 439
"	"	"	110-112	....	Perkin & Hodgkinson	37, 725 and 727	
"	"	"	110-110.1	....	Brühl	A., 200, 139	38, 296
"	"	"	111	....	Ramsay	39, 64	
"	"	"	110.9-111.2	....	Brown	39, 211	
"	"	"	u. c.	....		
"	"	"	111-112	....	Bötsch	M. C., 1, 609	42, 210 and 211
"	"	"	108	....	Deville	....
"	"	"	110.5	....	Noad	J. F. P., 44, 145	
"	"	"	111	....	Wilbrand & Beilstein	A., 128, 257	
"	"	"	110	....	" "	G. J. C., 1863	
"	"	"	109.2	....	Schiff	G. J. C., 1881	
"	"	"	103.7 c. (760)	....	Church	P. M. [4], 9, 257	
"	"	"	110	....	Wilson	P. M. [4], 9, 258	
"	"	"	106	....	Glenard & Bondault	"	
Paratoluene	....	"	119.5	....	Church	J., 17, 531	
Retinaphtha	....	"	108	....	Pelletier & Walter	A. C. P. [2], 67, 267	41, 167
Tropilidene	....	"	113	....	Ladenburg	B., 14, 230, 2128 and 2403	A., 216, 338
"	....	"	114-115	....	Merling	B., 15, 289	A., 217, 117 & 133
Action of baryta on dioxyretistene (?)	....	$(C_7H_8)_n$	215-220	....	Ekstrand	A., 185, 104	32, 499
Heptone	From diallylcarbinolchloride	C_7H_{10}	280-285	....	Schwarz	B., 14, 1530	
Toluene dihydride	....	"	115	....	Saytzeff	A., 185, 144	32, 298
Tetramethylallylene	$Me_2.C:C.Me_2$	C_7H_{12}	105-108	....	Baeyer	A., 155, 271	vii., 656
Methylpropylallylene	$CHMe:C:CH.C_3H_7$	"	70	....	Henry	B., 8, 400	
Enanthylidene	$Me.(CH_2)_4.C:CH$	"	103-104	....	Tilden	B., 13, 1604	41, 174
"	"	"	106-108	....	Rubien and Henry	A., 142, 294 ; B., 8, 409	vi., 696
Heptylidene	....	"	115-125	....	Funaro	G. J. [1881], 274	40, 1032
Toluene tetrahydride	From colophony	"	103-105 ; 103-106	Liquid	Rénard	A. C. P. [6], 1, 223 ; C. R., 91, 419 ; B. S. C. [2], 36, 215	46, 843 ; 42, 64 ; 38, 893
Heptylene (?)	....	$(C_7H_{12})_n$	200-250	....	Tawildarow	B., 9, 1442	
" (methylbutylethylene)	From resin spirit	C_7H_{14}	70-80	....	Anderson	C. N., 20, 76	41, 173
"	$CMe_3.CMe:CH_2$	"	78-80	....	Eltekoff	A., 180, 245 ; J. R. C. S. [1882], 355	44, 567 ; B., 1 399
"	"	"	....	Liquid in freezing mixture	Butlerow	A., 167, 176	28, 1249
"	....	"	80	....	Kaschirsky	C. C. [1881], 278	42, 37
"	....	"	80-85	....	"	B. J., 21, 470	
"	....	"	80-85	....	"	A., 25, 284	
"	....	"	80-85	....	"	B. S. C., 5, 307	
"	$Me_2.CH.CH:CM_2$ or $Me_2.CH_2.CMe:CH_2$	"	81-83	....	Markownikow	Z. C. [2], 7, 263	24, 1028
"	"	"	83-84	....	Pawlow	B., 7, 729	27, 1076
"	....	"	91	....	Grimshaw	A., 166, 167	26, 313
"	From $Me_2.C.Et_2$	"	90-92	....	Schorlemmer	26, 320	vii., 643
"	....	"	90-91	....	"	26, 323	
"	From methylethyl propylcarbinol	"	90-95	....	D. Pawlow	A., 187, 104 ; B., 9, 1311	32, 732 ; 31, 58
" (trimethylethylethylene)	$CMe_2:CMeEt$	"	92-95 (755)	....	Kaschirsky	B., 11, 984 ; C. C. [1881], 278	36, 46 ; 42, 37
"	"	"	75-80	....	Pawlow	B., 9, 1311 ; A., 190, 314 ; 187, 194	31, 58 ; 32, 732 ; 42, 37
"	....	"	90-100	....	Schiff	Z. C., 6, 75	vii., 869

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Heptylene ....	....	C_7H_{14}	94-97	....	....	A., 165, 11	
" ....	....	"	95	....	Schorlemmer	16, 219	iii., 147
" ....	....	"	95-100	....	"	15, 424	
"	From $Me_2CH(CH_2)_3Me$	"	94	....	"	P. R. S., 14	vi., 696
" ....	....	"	94.1	....	Warren and Storer	J., 21, 331	
" (normal ?)	From azelaic acid	"	96	....	Schorlemmer	P. R. S., 14	vi., 696
"	" petroleum	"	96	....	"	"	"
" ....	....	"	98	....	"	A., 166, 177	
" ....	....	"	99	....	Williams	J., 11, 438	iii., 147
"	$CH_3.(CH_2)_4.CH:CH_2$	"	93-95	....	Schorlemmer	A., 136, 267	
"	"	"	95-97	....	"	"
"	"	"	98-99	....	"	A., 166, 176	26, 322
" (methylbutyl-ethylene)	$C_4H_9.CH:CHMe$	"	98.5	....	Schorlemmer and Thorpe	A., 217, 149	44, 652
" ....	....	"	107	....	Mendeljeff	J. R. C. S. [1882], 230	42, 919
Toluenehexhydride ....	....	"	94-100	....	Wreden	A., 187, 161	32, 445
" " ....	....	"	94-100	....	"	B., 8, 769	29, 914
" " ....	....	"	95-100	....	Beilstein&Kurbatow	B., 13, 1818	40, 159
" "	From colophony	"	95-98	....	Rénard	A. C. P. [6], 1,223	46, 843 ; 42, 1301
Heptane (normal)	$Me.(CH_2)_5Me$	C_7H_{16}	98-99	....	Schorlemmer	P. R. S., 16, 367	24, 896
" "	"	"	100.5	....	"	"	vi., 696 ; 24, 896
" "	"	"	98.65	....	Goldstein	J. R. C. S. [1882], 45	42, 374
" "	"	"	98.4 c.	....	Perkin	45, 447	
" "	"	"	97-99	....	Thorpe and Young	A., 165, 13 ; B. 5, 556	vii., 892 ; 25, 803
" "	"	"	97.5-98	....	Schorlemmer	P. T. [1872], 111	vii., 642 ; 25, 1086
" "	"	"	92-94	....	Pelouze & Cahours	C. R., 56, 505 ; A., 127, 196	25, 1086 ; iii., 147
" "	"	"	98	....	Schorlemmer	26, 322	
" "	"	"	96-99	....	J. M. Morgan	28, 303	
" "	"	"	98	....	Schorlemmer	16, 216	iii., 147
" "	"	"	98	....	Warren	J. [1865], 516	vi., 696
" "	"	"	97.8	....	Warren and Storer	Z. C. [2 4, 231	"
" (from Pinus Sabiniana)	"	"	98.4 (760) ; 281 c. t.	....	Thorpe and Rücker	45, 166	
" "	"	"	98.4 c. (760)	....	T. E. Thorpe	35, 298	
" "	"	"	98.3 c. (755)	....	"	"
" "	"	"	97.9 c. (747)	....	"	"
" "	"	"	281 c. t.	....	"	35, 308	
" "	"	"	98.42 c. (755.6 r.)	....	Thorpe	37, 214	
" "	"	"	98.43 c. (746.9 r.)	....	"	"
" (from petroleum)	"	"	98.1-99.1 c. (765)	....	"	35, 308	
" "	"	"	98.1-98.6 c. (750)	....	"	"
" "	"	"	90	....	"	"
" "	"	"	90-92	....	Schorlemmer	A., 136, 257	
Heptane (from azelaic acid)	....	"	98-99	....	Dale	17, 261	35, 308
" " ....	....	"	91	....	W. Ramsay	35, 469	
" " ....	....	"	96-98	....	Cahours and Demarçay	C. R., 80, 1570	
" " ....	....	"	99	....	Lachowicz	A., 220, 188	46, 166
" " ....	....	"	99	....	Schorlemmer	P. R. S., 16, 367	vii., 891
" " ....	....	"	99	....	Mendeljeff	J. R. C. S. [1882], 230	42, 919

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Heptane (from azelaic acid)	....	C_7H_{16}	95-100	....	Amato	G. I., 2, 6	25, 682
" " " " " "	From light rosin oil	"	95-97	....	Tilden	B., 13, 1604	40, 101
" (triethylmethane)	CH_3Et_3	"	95-98	....	Ladenburg	B., 5, 752; A., 164, 300; B. S. C., 18, 548	vii., 1182; 26, 48 & 50
" (methylethyl-propylmethane)	$CH_3Me.Et.Pr^a$	"	91	....	Just	A., 220, 146	46, 169
" " " " " "	....	"	91-93	....	Berthelot	J. [1867], 346, 350	vi., 696
" " " " " "	....	"	90-92	....	Warren	J. [1865], 516	"
" " " " " "	....	"	90	....	Schorlemmer	P. R. S., 16	"
" " " " " "	....	"	89-91	....	"	A., 136, 257	"
" " " " " "	....	"	90.4	....	Warren	....	26, 320
a. Isoheptane (ethylamyl)	$Et.CH_2.CH_2.CHMe_2$	"	88	....	Schorlemmer	16, 428	"
" " " " " "	" " " "	"	88	....	Wurtz	A. C. P. [3], 44, 275	ii., 525
" " " " " "	" " " "	"	91	....	Schorlemmer	P. R. S., 16	vi., 696 & 709
" " " " " "	" " " "	"	88	....	Wurtz	A. C. P. [3], 54, 278	26, 309
" " " " " "	" " " "	"	90	....	Grimshaw	26, 311	vii., 642
" " " " " "	" " " "	"	90.3 (762.3)	....	Thorpe, T.	....	37, 216
" " " " " "	" " " "	"	89.5 (745)	....	Purdie	39, 468	"
" " " " " "	" " " "	"	90	....	Goldstein	J. R. C. S. [1882], 45	42, 374
" " " " " "	" " " "	"	90-91	....	Schorlemmer	A., 136, 257	"
Heptane (dimethyldiethylmethane)	CMe_2Et_2	"	86-87	....	Friedel and Ladenburg	A., 142, 310, 318	vi., 398 & 826
" " " " " "	" " " "	"	86	....	Schorlemmer	P. R. S., 16	vi., 709
" " " " " "	" " " "	"	89.5-90	....	"	A., 166, 172	vii., 643; 26, 322
" " " " " "	$C_6H_{13}.Me$	"	82	....	Wurtz	J., 8, 576	i., 97
" " " " " "	" " " "	"	85	....	"	A. C. P. [3], 44, 275	iii., 1008
Phenylacetylene	$C_6H_5.C:CH$	C_8H_6	139-140	Liquid	Glaser	A., 154, 156; Z. C., 5, 97	vi., 5
" " " " " "	" " " "	"	141.6	....	Weger	A., 221, 61	46, 11
" " " " " "	" " " "	"	140	....	Radziszewsky	B., 6, 493	26, 1029
Styrolene or cinnamene (phenylethylene)	$C_6H_5.CH:CH_2$	C_8H_8	145	l. -20	E. Kopp	Compt. Ch. [1846], 87; C. R., 53, 634	i., 981
" " " " " "	" " " "	"	145.75	....	Blyth & Hofmann	A., 53, 293	"
" " " " " "	" " " "	"	146.2	....	Weger	A., 221, 61	46, 11
" " " " " "	" " " "	"	144-150	....	Emmerling and Engler	B., 4, 147	vii., 1101
" " " " " "	" " " "	"	144-145	....	Fittig and Binder	G. J. C. [1879]	"
" " " " " "	" " " "	"	144.5	....	Perkin	32, 673	"
" " " " " "	" " " "	"	140	....	Scharling	A., 97, 186	"
" " " " " "	" " " "	"	145-146	....	Bötsch	M. C., 1, 609	42, 210
" " " " " "	" " " "	"	144	....	Kopp	J. F. P., 37, 283	"
" " " " " "	" " " "	"	140-147	....	Hatton and Hodgkinson	39, 320	"
" " " " " "	" " " "	"	145	....	Berthelot	G. J. C., 1866	"
" ? " " " "	" " " "	"	135-160	....	....	....	vi., 32
Retinol	....	"	236-244	....	Pelletier & Walter	A. C. P. [2], 67, 267	41, 167
Metastyrolene	....	$(C_8H_8)_n$	Very high	300 in retort	Bötsch	M. C., 1, 609	42, 210
Xylene	$Me.Me=1.2$	C_8H_{10}	140-141	....	Fittig and Bieber	Z. C. [2], 5, 495	vi., 294
" (contained some para-)	" " " "	"	141-143 c.	l. -22	Jannasch & Hübner	Z. C. [2], 7, 706; A., 170, 117	vii., 1208; 25, 893; 27, 257
" " " " " "	" " " "	"	142-143 c.	....	Jacobsen	B., 10, 1013	32, 601
" " " " " "	" " " "	"	141	....	Ricard	B., 12, 580	36, 655
" " " " " "	$Me.Me=1.3$	"	137-138	Liquid	Fittig, Laubinger and Jannasch	Z. C. [2], 3, 577	vi., 293
" " " " " "	" " " "	"	136-141	....	Bötsch	M. C., 1, 609	42, 211

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Xylene	Me.Me=1.3	C_8H_{10}	139-140	....	Rommier	C. R., 70, 641 ; B.S.C.[2], 19, 434	vii., 402 ; 26, 888
"	"	"	139.8	....	Warren	A., 148, 1 ; A., 156, 236	v., 1056
"	"	"	139	....	Gundelach	B. S. C. [2], 26, 43	30, 513
"	"	"	135-140	....	Tilden	45, 416	
"	"	"	135-141 (730)	....	Ador and Rilliet	B., 11, 1627	36, 228
"	"	"	137-138	....	Fittig and Velguth	J., 20, 697	
"	"	"	140-141	....	Wroblewsky	A., 207, 91	40, 433
"	Me.Me=1.4	"	....	10	Jacobsen	B., 14, 2111	42, 187
"	"	"	136	15	Jannasch	Z. C. [2], 7, 117	24, 509
"	"	"	136.5 (758)	....	Schiff	G. J. C., 1881	
"	"	"	136-137	15	Jannasch	A., 171, 79	27, 468
"	"	"	136-137	....	Fittig and Glinzer	G. J. C., 1865	
"	"	"	136.5	15	Jannasch	A., 176, 283	28, 889
"	"	"	135-140	....	Meyer	B., 3, 753	
"	"	"	....	13-15	Jacobsen	B., 10, 1010	32, 600
"	"	"	136-137	15	Schaumann	B., 11, 1537	36, 51
"	"	"	139-140	....	Glinzer and Fittig	A., 136, 303	v., 857
"	"	"	139-140	....	Carstangen	J. P. C. [2], 23, 421	42, 612
"	"	"	136-141	....	Bötsch	M. C., 1, 609	42, 211
"	Me.Me= ?	"	126	....	....	....	iv., 2
"	"	"	126.2 c. (760)	....	Church	P. M. [4], 9, 257	
"	"	"	136	....	Rénard	A. C. P. [6], 1, 223	46, 843
"	"	"	128-130	....	Cahours	J., 3, 492	
"	"	"	132-134	....	Ramsay	35, 469	35, 469
"	"	"	135	....	Fittig	B. S. C., 11, 398	
"	"	"	132.5-138.5 (752)	....	Naumann	B., 10, 1421	34, 48
"	"	"	135-140	....	Ramsay	....	39, 64
" (from coal tar)	"	"	138-139	....	Longuinene	A. C. P. [4], 11, 153	vi., 278
"	"	"	138-140	....	Boyes	B., 10, 1710	34, 143
"	"	"	142-142.5	....	Warren and Storer	J., 21, 331	
"	"	"	139	....	....	....	v., 1056
"	"	"	139	....	Beilstein	A., 133, 37	
"	"	"	139-140	....	Rommier	B. S. C. [2], 19, 434	26, 887
"	"	"	140	....	Müller	J., 17, 424	
"	"	"	139-141	....	Witting and Post	B., 10, 745	32, 611
Ethyl benzene	Ph.Et	"	133	....	Tollens and Fittig	A., 131, 310	iv., 484
"	"	"	136.5	....	Weger	A., 221, 61	46, 11
"	"	"	133	....	....	....	v., 1056
"	"	"	134	....	Fittig and König	A., 144, 277	
"	"	"	134	....	Weidel & Ciamician	B., 13, 70	
"	" (?)	" (?)	130-140	....	Goldschmidt	B., 15, 1067	
"	"	"	134-136	....	Ciamician	W. A. B. [2 Ab], 346	40, 247
"	"	"	134-140	....	Bötsch	M. C., 1, 609	42, 210
Phylloretin	....	"	....	86	Forchammer	J. F. P., 20, 459	iv., 634
Action of P_2O_5 on γ -diethyl-oxybutyric acid	or $(C_8H_{12})_n$	$(C_8H_{11})_n$	260-270	....	Emmert & Friedrich	B., 15, 1852	44, 39
Cantharene	$H_4.C_6H_4 \begin{matrix} \swarrow CH_2 \\ | \\ \searrow CH_2 \end{matrix}$ or $H_2.C_6H_4.Me_2$	C_8H_{12}	134-135	Liquid	Piccard	B., 11, 2122	36, 271
"	$CH_2.CH_2=1.2$ or Me.Me=1.2	"	134	....	"	B., 12, 578	36, 655
Action of P_2O_5 on γ -diethyl-oxybutyric acid	or $(C_8H_{11})_n$	$(C_8H_{12})_n$	260-270	....	Emmert & Friedrich	B., 15, 1852	44, 39
Xylene tetrahydride....	Me.Me=1.3	C_8H_{14}	119	....	Wreden	A., 163, 336 ; A., 187, 171 ; B., 6, 1381 ; Z. C. [2], 7, 97	25, 896 ; 32, 446 ; 27, 258 ; vii., 236
"	....	"	128-130	....	Rénard	A. C. P. [6], 1, 223	46, 843
"	....	"	129-132	....	"	"	46, 844
Caprylidene	....	"	133-134	....	....	A., 142, 299	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Conylene .....	.....	C_8H_{14}	120 (738)	....	Wertheim	R. C. p. [1863], 45	ii., 965
" .....	.....	"	125	Liquid	Hofmann	B., 14, 710	40, 746
" .....	.....	"	126	....	Wertheim	A., 123, 157; A., 130, 297	
Octine ....	.....	"	129-132	....	Rénard	C. R., 95, 141	42, 1179
Campholene	(See also C_9H_{16})	"	122-126	....	Ballo	B., 12, 324	36, 540
(?)	From cu-camphorate	"	105	....	Moitessier	J. [1866], 410	vi., 389
(?)	" "	"	105; 104-107	....	Wreden	B., 6, 1381; A., 187, 168	27, 258
(?) .....	.....	"	122-125	....	Baeyer	A., 155, 206	vii., 656
(?)	From rosin oil	"	130	....	Rénard	B. S. C., 36, 215	42, 64
Octylene	" pelargonic acid	C_8H_{16}	106-110	....	Cahours	C. R., 31, 143; J. [1850], 402	
"	" petroleum octane	"	115-117	....	Schorlemmer	J., 15, 386; A., 125, 113	iv., 172; vi., 710
" .....	.....	"	116-120	....	Cahours	A., 92, 399	iv., 172
"	From $Me.(CH_2)_5CH.OH.Me$	"	118-119	....	....	G. H., 293	
" .....	.....	"	118-120	....	Pelouze & Cahours	J., 16, 529	iv., 172
" .....	.....	"	b. 120	....	Wurtz	B. S. C., 5, 307; A., 128, 230	"
" .....	.....	"	118-124	....	Cloez	B., 7, 823; C. R., 178, 1865	27, 972
"	Fr. $Me_2CH.CH_2.CH_2CHMe_2$	"	122	....	Williams	B., 10, 908	32, 542
"	From colophony	"	120-123	....	Rénard	C. R., 95, 245	42, 1301
"	" primary octyl alcohol	"	120-125	....	A. Cahours and E. Demarçay	C. R., 86, 991	34, 653
"	" cenanthol	"	122-125	....	Fittig	J., 13, 320	
"	" parafin	"	122-125	....	....	A., 165, 14	
" .....	.....	"	122.4	....	Lachowicz	A., 220, 168	46, 166
" .....	.....	"	125 (760)	....	Bouis	J. 7, 582; A. C. P. [3], 44, 139	iv., 172
" .....	.....	"	125	....	....	Z. C. [1868], 230	
" .....	.....	"	125.2	....	Warren and Storer	J., 21, 331	
" .....	.....	"	125-126	....	E. Nieson	28, 207	
" .....	.....	"	125-127	....	"	27, 848	
" .....	.....	"	126-128	....	"	27, 847	
" (normal)	$Me.(CH_2)_5CH:CH_2$	"	123.6	....	Pawlewski	B., 16, 2634	46, 252
" (normal) (?)	$Me.(CH_2)_5CH:CH_2(?)$	"	298.6 c. t.	....	"	"	"
" (diisopropylethylene)	$CHPr^{\beta}:CHPr^{\beta}$	"	122-123	....	....	A., 185, 53	
" (diisobutylene)	$Me_2C:CH.CMe_3$	"	116-120	Liquid	Fossek	M. C., 4, 663	46, 38
"	"	"	102.53	Liquid	Butlerow	C. C. [1877], 2	32, 874
"	"	"	102-104	Liquid	"	A., 189, 49	34, 122
" .....	.....	"	102.5	....	Dobbin	37, 241	
" .....	.....	"	102-104	....	Konovaloff	B. S. C. [2], 34, 334	40, 400
"	(?) (See C_8H_{18})	" (?)	107.5	....	Pawlewski	B., 16, 2634	46, 252
"	From anethol	"	270.8 c. t.	....	"	"	"
" .....	.....	"	abt. 150	....	Landolph	C. R., 82, 849; B., 9, 725	30, 79
Xylene hexhydride	$Me.Me=1.3$	"	115-120	....	Wreden	B., 6, 1379	27, 258
"	" = 1.3	"	115-120	....	"	Z. C., 14, 99	B., 6, 1380
"	" = 1. ?	"	118	....	"	A., 187, 155	32, 445
"	" = 1. ?	"	120-123	....	Rénard	A. C. P. [6], 1, 223	46, 843
"	" = 1.4	"	137.6 c.	....	Schiff	B., 13, 1407; G. I. 10, 317	36, 892
Metaoctylene .....	.....	$(C_8H_{16})_n$	250	....	....	A., 92, 396	
Octane (normal), from different sources	$Me.(CH_2)_6Me$	C_8H_{18}	123-124	....	Schorlemmer	P. R. S., 16, 367	24, 896
"	"	"	123-124	....	"	"	"
"	"	"	123-124	....	"	"	"
"	"	"	124	....	"	P. R. S., 16, 367; vii., 891	24, 896; vi., 709 and 879

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Octane (normal)	Me.(CH ₂) ₆ .Me	C ₈ H ₁₈	124	...	Schorlemmer	B., 3, 616	vii., 277
" "	"	"	123-125	...	"	P. T. [1872], 111	vii., 867 ; 25, 1086
" "	"	"	123	...	Hofmann	B., 16, 591	
" "	"	"	125.46 (760.8)	...	Thorpe	....	37, 217
" (iso)	Me.(CH ₂) ₄ CH.(Me) ₂	"	124	...	Schorlemmer	P. R. S., 16, 370	vi., 65 & 877
" "	"	"	127	...	Riche	J., 13, 248	
" "	"	"	122-125	...	Schorlemmer	A., 152, 15	vi., 877
" "	"	"	122-125	...	Thorpe and Young	A., 165, 1; B., 5, 558	vii., 892; 25, 803
" "	"	"	118-122	...	"	A., 165, 1	
" "	"	"	119-122	...	Schorlemmer	A., 152, 15	vi., 877
" "	"	"	119-120	...	"	J., 15, 386	15, 419; iii., 181
" "	"	"	118-120	...	Cahours & Demarçay	C. R., 80, 1571	
" "	From acenaphthene	"	115-120	...	Berthelot	B. S. C. [2], 8, 221	vi., 3
" "	" cinnamene	"	115-120	...	"	B. S. C. [2], 9, J. [1867], 449	vi., 741; vi., 466
" "	"	"	116-118	...	Pelouze & Cahours	J., 16, 524	iii., 181
" "	"	"	115-118	...	Wurtz	J., 16, 509	"
" (diisobutyl)	Me ₂ CH.(CH ₂) ₂ .CHMe ₂	"	108-108.3 (745)	1. -17	W. C. Williams	35, 125	
" "	"	"	108.2 (745)	...	"	"	
" "	"	"	108.5 c. (747.5)	...	Kopp	A., 95, 335	35, 125
" "	"	"	106 (745)	...	"	....	v., 732
" "	"	"	108	...	Kolbe	A., 69, 358	31, 541
" "	"	"	108.5	...	Wurtz	A.	v., 732
" "	"	"	106	...	"	A. C. P. [3], 4, 278	31, 541
" " (?) (See C ₈ H ₁₆)	"	" (?)	107.5	...	Pawlewski	B., 16, 2634	48, 252
" "	"	"	270.8 c.t.	...	"	"	"
" "	"	"	109	...	Williams	B., 10, 908	31, 542
" "	"	"	108.53 (760)	...	Thorpe	37, 219	
" (amylisopropyl)	C ₅ H ₁₁ .CHMe ₂	"	109-110	...	Schorlemmer	P. R. S., 16, 37; J., 20, 567	v., 887; vi., 105
" "	"	"	109	...	Kopp	....	vi., 105
" (hexamethylethane)	Me ₃ C.CMe ₃	"	105-106	96-97	Lwow	B. S. C. [2], 35, 169	40, 399
Xylene octohydride	"	"	118-120	...	Berthelot	B. S. C. [1869], 106	
Allyl benzene (α-phenylpropylene)	Ph.CH : CH.Me	C ₉ H ₁₀	164.5-165.5 (728)	...	Radziszewsky	C. R., 78, 1153	27, 798
" " "	"	"	165	...	Rügheimer	A., 172, 129	27, 894
" " "	"	"	165	...	Tiemann	B., 11, 672	
" " "	"	"	165-170	...	Fittig & Krügener	B., 6, 214	
" " "	"	"	170-171	...	Perkin	32, 673	
" " "	"	"	174-175	1. -15	"	32, 666	
Isoallyl benzene (β-phenylpropylene)	Ph.CH ₂ .CH : CH ₂	"	155	Liquid	Chojnacki	C. R., 76, 1413; A., 172, 132	26, 1029; J., 1873, 359
Canabene	"	"	235-240	...	Personne	J. Ph. [3], 31, 46	vi., 391
" "	"	"	90-95 in vac.	...	"	"	"
Trimethyl benzene (mesitylene)	Me.Me.Me=1.3.5	C ₉ H ₁₂	158-168	...	Jacobsen	B., 10, 858	
" " "	"	"	155-160	Liquid	Hofmann	2, 104; A., 74, 106	iii., 930; i., 29
" " "	"	"	158-163.5	(Not quite pure)	Ador and Rilliet	B., 12, 329	
" " "	"	"	162-164	...	Cahours	3, 17	iii., 930.
" " "	"	"	163	...	Fittig & Brückner	A., 147, 42	vi., 298
" " "	"	"	164-167	...	Fittig	Z. C. [2], 4, 577	vi., 296
" " "	"	"	165-167	...	Rommier	B. S. C. [2], 19, 434	26, 887
" " "	"	"	162.6-163.6 (743)	...	Brühl	A., 200, 190	38, 296
" " "	"	"	163.5-164	...	Ramsay	39, 64	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Trimethyl benzene (pseudo-cumene)	Me.Me.Me=1.3.4	C_9H_{12}	abt. 166	....	....	....	vi., 200
" " "	" "	"	166	....	Fittig	....	vi., 296
" " "	" "	"	166	....	Beilstein & Kögler	A., 137, 117	vi., 297
" " "	" "	"	166	....	Bötsch	M. C., 1, 609	42, 211
" " "	" "	"	165-167	....	Rommier	B. S. C. [2], 19, 434	26, 888
" " "	" "	"	163.5-167	Not quite pure	Adir and Rilliet	B., 12, 329	.
" " "	" "	"	166	Liquid	P. Jannasch	A., 176, 286	28, 889
" " "	" "	"	158-168	....	Jacobsen	B., 10, 856	
" " "	" "	"	165-166	....	Fittig and Ernst	A., 139, 186	v., 1058
Trimethyl benzene (hemimellitene)	" =1.2.3	"	168-170	1.-15	Jacobsen	B., 15, 1857	44, 53
Ethylmethyl benzene	Et.Me=1.3	"	158	....	Ciamician	B., 11, 270	34, 439
" "	" "	"	158-159	....	Wroblewsky	C. C., 6, 68	B., 7, 1681
" "	" "	"	160	....	Ciamician	B., 12, 1662; G. I., 9, 304	38, 39; 38, 126
" "	" =1.4	"	161-162	Liquid in freezing mixture	Jannasch & Dieckmans	B., 7, 1514; C. C. [1875], 21	28, 1189
" "	" "	"	162	....	Mazzara	G. I., 10, 256	38, 882
" "	" "	"	159-160	....	Glinzer and Fittig	A., 136, 312	v., 857; vi., 200
" "	" "	"	....	1.-18	G. H., 606		
Propyl benzene	Ph.CH ₂ .CH ₂ .Me	"	157-157.5	....	Fittig, Schäffer, & König	A., 149, 324; G. J. C., 1869	vi., 200 and 295
" " " " " "	"	"	157.5-158.5	....	Wispek and Zuber	A., 218, 374	44, 977
" " " " " "	"	"	156.5-158.5 c. (758)	....	Paternò and Spica	B., 10, 294; G. I., 7, 22	31, 707
" " " " " "	"	"	157.6-159 c. (738)	....	Spica	G. I., 8, 406	38, 631
" " " " " "	"	"	167	....	Etard	A. C. P. [5], 22, 218	40, 582
Isopropyl benzene (cumene)....	Ph.CHMe ₂	"	144-151.4	....	Gerhard & Cahours	P. M. [4], 9, 258; A. C. P. [3], 1, 88	ii., 173; iv., 2
" " " " " "	"	"	148	....	Abel and Cahours	A., 63, 308	ii., 173
" " " " " "	"	"	148.4 c.	....	Church	P. M. [4], 9, 257	
" " " " " "	"	"	145-155	....	Jacobsen	B., 8, 1261	
" " " " " "	"	"	151	....	Rénard	A. C. P. [6], 1, 223	46, 844
" " " " " "	"	"	151	....	Warren	G. J. C., 1865; J., 18, 515	vi., 200
" " " " " "	"	"	151-151.5	....	Fittig and König	G. J. C., 1869	vi., 295
" " " " " "	"	"	151	....	Gustavson	B., 11, 1251	
" " " " " "	"	"	153	....	Gerhardt	A. C. P. [3], 14, 111	
" " " " " "	"	"	150-160	....	Kachler	A., 164, 75	25, 1012
" " " " " "	"	"	151-151.5	....	Paternò and Pisati	G. I., 3, 574	36, 633
" " " " " "	"	"	150-155	....	" "	G. I., 9, 443	38, 166
" " " " " "	"	"	152.5-153	....	Liebmann	B., 13, 46	38, 384
" " " " " "	"	"	165-167	....	Romier	C. R., 70, 641	vii., 402
Cumene	From coal tar	"	166	....	Beilstein & Kögler	A., 137, 322	
" " " " " "	"	"	169.8	....	Warren	J., 18, 515	
Retinyl (cumene ?)	....	"	150	....	Pelletier & Walter	A. C. P. [2], 67, 267	41, 167
(?)	....	"	150-160	....	....	A., 100, 354	
(?)	From phorone	"	150-160	....	Schwanert	A., 128, 298	vi., 390
(?)	" camphrene	"	170-175	....	"	A., 128, 298; 25, 1012	vi., 390; vii., 239
(?)	....	"	170-175	....	....	A., 123, 304	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyltoluene dihydride	Et.Me=1.3	C_9H_{14}	153.5 (748.7)	Liquid	Weidel & Ciamician	B., 13, 73	38, 404
Carpene	....	"	155-157	....	Oudemans	B., 6, 1126	27, 73
Action of BF_3 on acetone	....	"	162-165	....	Landolph	B., 8, 1583; C. R., 89, 173	36, 915
Branchite	....	C_9H_{16}	....	75	Savi	L. B. J. [1842], 459	i., 652
Campholene	....	"	135-137	....	....	A., 38, 340	A., 162, 266
Nonine	From camphor	"	135-140	....	Weyl	B., 1, 96	
(?)	" rosin oil	"	abt. 140	....	Rénard	B.S.C.[2], 36, 215	42, 64
Cumene tetrahydride	....	"	155 (?)	....	"	A. C. P. [6], 1, 223	46, 844
Camphin	....	C_9H_{16} or $C_{10}H_{18}$	167-170	....	Claus	J. p. C., 25, 262; Gm., 14, 488	i., 725
Nonylene	From oleic acid	C_9H_{18}	110	....	Frémy	A., 20, 65	iv., 134
"	" camphor	"	115-118	....	Weyl	B., 1, 95	
"	" bituminous shale	"	120-121	....	....	A. 25, 285	
"	Action of BF_3 on acetone	"	130	....	Landolph	C. R., 89, 173; B., 8, 1583	36, 915
"	From fusel oil	"	140	....	Wurtz	J., 16, 510; B. S. C., 5, 307	iv., 134; vi., 710
"	" oenanthol	"	144-146	....	Fittig	J., 13, 321	A., 117, 78
"	" paraffin	"	145-148	....	....	A., 165, 19	
"	" fish brine	"	153 c.	....	Warren and Storer	Z.C. [1868], 230; J., 21, 331	vi., 874
Cumene hexydride	$H_6.C_6H_5.CHMe_2$	"	147-150	....	Rénard	C. R., 95, 245	42, 1301
"	"	"	147-150	....	"	A.C.P. [6], 1, 223	46, 844
Mesitylene	Me.Me.Me=1.3.5	"	135-138	....	Baeyer	A., 155, 275	vii., 657
"	"	"	135-138	....	Wreden	A., 187, 153	32, 445
"	"	"	138	....	Baeyer	Z. C. [2], 5, 320	vi., 298
Nonane (normal)	Me.(CH_2) ₇ .Me	C_9H_{20}	150.8	....	Richter	R. K. T., 203	
"	"	"	39.5 (11)	....	Krafft	B., 15, 1692	42, 1271
"	"	"	86 (100)	....	"	"	"
"	"	"	149.5 (760)	-51	"	"	"
"	"	"	148	....	Lachowicz	A., 220, 1881	46, 166
"	" (?)	"	147-148	....	Thorpe and Young	A., 165, 19; B., 5, 556	vii., 892; 25, 803
"	....	"	138-140	....	Cahours & Demarçay	C. R., 80, 1571	
"	....	"	136-138	....	Pelouze & Cahours	J., 16, 524	iii., 181
"	....	"	134-137	....	Wurtz	A., 128, 225; B.S.C.[1863], 300	iii., 181; iv., 134
" (iso-butylisoamyl)	$Me_2CH.CH_2.(CH_2)_2.CHMe_2$	"	132	....	"	J., 8, 576	v., 732; vi., 709
" (methyldiisopropylethane)	$Pr^B.CH_2.CHMe.Pr^B$	"	130	....	Silva	B., 5, 984	
(?)	....	$C_{10}H_4$	175-180	....	....	B. S. C., 37, 303	
Naphthalene	$C=C-C-C=C$ | || | $C=C-C-C=C$	$C_{10}H_8$	212	79	Dumas	A.C.P.[2], 50, 182	
"	"	"	221	....	Gerhardt	A.C.P.[3], 14, 111	
"	"	"	....	81	Löwe	D. P., 201, 250	
"	"	"	....	79	Baeyer and Perkin	B. 17, 451	
"	"	"	218	79	H. Kopp	(?)	iv., 5
"	"	"	216.4-216.8	79.2	Kopp	A.	
"	"	"	218	....	Crafft	B. S. C., 39, 196, and 277	44, 843
"	"	"	218	79.2	Naumann.	B., 4, 647	24, 879
"	"	"	100 (v. t. 20.5), 78 (v. t. 9.0), 15 (v. t. 2.0)	....	"	"	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Naphthalene	$\begin{array}{c} \text{C}=\text{C}-\text{C}-\text{C}=\text{C} \\ | \quad \quad || \quad | \\ \text{C}=\text{C}-\text{C}-\text{C}=\text{C} \end{array}$	C_{10}H_8	218	....	Grimshaw and Schorlemmer	26, 1075	
"	"	"	217	....	Schorlemmer	28, 209	
" ....	"	"	....	79.91	Alluward	J., 12, 472	
"	"	"	217	80	Schultz	B., 9, 549	30, 197
" ....	"	"	....	80.07	E. J. Mills	P.R.S. [1881], 205	
"	"	"	213 n.c.	79.5	Carnelley	37, 706	
"	"	"	217 c.				
"	"	"	217-218	79.25	Vohl	J. p. C., 102, 29	vi., 843
"	"	"	217	....	Geissler	26, 1075	
" ....	"	"	....	70	Goldschmiedt and Schidt	W. A., 83 [2], 7	40, 824
Phenyl crotonylene	$\text{Ph}.\text{CH}:\text{CH}.\text{CH}:\text{CH}_2$	$\text{C}_{10}\text{H}_{10}$	185-190	....	Aronheim	A., 171, 230	27, 689
Ethylphenyl acetylene	$\text{Ph}.\text{C}:\text{C}.\text{Et}$	"	201-203 u.c.	....	Morgan	29, 163	
Naphthalene dihydride ....	....	"	200-210	....	Berthelot	J. [1867], 709 ; B. S. C., 9, 288	vi., 844
" " ....	....	"	199-201	....	Pechmann	B., 16, 517	44, 809
" " ....	....	"	205	....	Wreden and Znatovicz	C. C., 177, 6	32, 899
(?)	....	"	210-212	....	Graebe	B., 5, 679	
α -Phenyl butylene	$\text{Ph}.\text{CH}_2.\text{CH}_2.\text{CH}:\text{CH}_2$	"	176-178	Liquid	Aronheim	B., 5, 1069 ; A., 171, 227	vii., 945 ; 26, 500
α - " "	"	"	177	....	Penfield	A., 216, 125	44, 474
" "	From $\text{Ph}.\text{CH}-\text{CH}.\text{COOH}$ $\quad \quad \quad | \quad \quad |$ $\quad \quad \quad \text{O}.\text{CO}.\text{CH}.\text{Me}$	$\text{C}_{10}\text{H}_{12}$	176-177	....	Fittig	B., 14, 1825	42, 190
β - " "	$\text{Ph}.\text{CH}:\text{CH}.\text{CH}_2.\text{CH}_3$ (?)	"	186	....	Radziszewsky	B., 9, 261	29, 915
β - " "	"	"	184-186	....	Perkin	35, 139	
β - " "	"	"	183-186	....	....	A., 216, 118	
β - " "	"	"	186-187	Liquid	Perkin	J. [1877], 382	32, 667
Naphthalene tetrahydride ....	....	"	201	....	Wreden and Znatovicz	C. C. [1887], 6	32, 899
" " (?)	....	" (?)	190	....	Berthelot	J. [1867], 709	vi., 844
" " ....	....	"	205 c.	....	C. Graebe	B., 5, 678	25, 1008
" " ....	....	"	205	....	Graebe and Guyl	B., 16, 3028	46, 608
Paranicene ....	....	"	365	....	St. Evre	J., 1, 532	
(?)	....	"	201	....	Baeyer	A., 155, 266	vii., 657
(?)	....	$\text{C}_{10}\text{H}_{12}$ or C_6H_6	119	....	Engler and Leist	B., 6, 255	26, 901
Tetramethyl benzene (durene)	$\text{C}_6\text{H}_2.\text{Me}_4=1.2.4.5$	$\text{C}_{10}\text{H}_{14}$	189-191	79-80	Jannasch and Fittig	Z. C. [2], 6, 16	vi., 828
" " " "	"	"	193-195	79-80	Ador and Rilliet	B., 12, 331	
" " " "	"	"	191	80	Jannasch	A., 176, 283	28, 889
" " " "	"	"	190	110 (<i>sic</i>)	Friedel and Crafts	C. R., 91, 257	40, 40
" " " (iso-durene)	$=1.2.3.5$	"	185-190	1.-18	Ador and Rilliet	B., 12, 331	36, 527
" " " "	"	"	195 c.	1.-20	Jacobsen	B., 15, 1853	44, 52
" " " "	"	"	195	....	Montgolfier	A. C. P. [5], 14, 87	34, 889 ; 46, 43
" " " "	"	"	192-194	Liquid in freezing mixture	Jannasch	B., 8, 355 ; B., 15, 1853	
" " " "	"	"	195-197	....	Bielefeldt	A., 198, 380	38, 37
" " " "	$=(?)$	"	196	....	Knublauch	Tubigen, I.D., 1875	
Ethyldimethyl benzene	$\text{C}_6\text{H}_3.\text{Et}.\text{Me}_2=1.3.5$	"	180-182	....	Jacobsen	B., 7, 1433	28, 259
" " " "	"	"	185	1.-20	Wroblewsky	B., 9, 496 ; A., 192, 217	30, 406 ; 34, 978
" " " "	$=1.2.4$	"	183-184	Liquid	Fittig and Ernst	A., 139, 192 ; Z. C. [2], 1, 572	v., 1058 ; vi., 302
" " (lau-rene ?)	$=1.3.4$	"	189	....	Armstrong & Miller	B., 16, 2258	46, 44

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diethyl benzene	$C_6H_4Et_2=1.3$	$C_{10}H_{14}$	176-179	....	Allen & Underwood	B. S. C., 40, 100	46, 587
" "	" =1.4	"	178-179	....	Fittig and König	A., 144, 285; Z. C. [2], 2, 358	vi., 301
" "	" "	"	181-182	Liquid in freezing mixture	Axhenbrandt	B., 12, 1303; A., 216, 211	36, 920; 44, 318
" "	" "	"	183	....	....	A. C. J., 4, 197	
" "	" = (?)	"	179-185	....	....	B. S. C., 31, 540	
Methylpropyl benzene (cymene)	$C_6H_4.Me.Pr^a=1.2$	"	181-182 u. c.	Liquid	Claus and Hausen	B., 13, 897	38, 631
" "	" =1.3	"	176-177.5	Liquid	Claus and Stüsser	B., 13, 899; J. R. C. S. [1882], 36	38, 632
" "	" =1.4	"	173-175	....	Paternò	G. I., 13, 535	46, 427
" "	" "	"	175-176	....	Fittica	B., 7, 324; A., 172, 303	27, 684; 28, 60
" "	" "	"	173-175	....	Jahns	B., 15, 818	
" "	" "	"	178-179	....	Fittig, Schäffer, and König	A., 149, 334	vi., 301 & 302
" "	" "	"	175	....	....	J. R. C. S., 11, 81	
" "	" "	"	174-176	....	Etard	A. C. P. [5], 22, 218	40, 582
" "	" "	"	175	....	Claus	B., 14, 2139	42, 196
" "	" "	"	175-175.5 (763)	....	Jacobsen	B., 11, 1060; B., 12, 431	34, 731; 36, 624
" "	" "	"	175-178	....	Spica	G. I., 12, 482	44, 321
" "	" "	"	174-175	1.-18	Carstanjen	J. p. C. [2], 3, 53	24, 353; vii., 935
" "	" "	"	175 c.	....	Fittica	A., 172, 303	28, 59
Methylpropyl benzene (from camphor)	" "	"	175 c.	....	"	"	"
" "	" "	"	174-175	....	Kopp	Z. C. [2], 4, 194	vi., 278
" "	" "	"	176.55 (761.4-761.6)	....	Pisati and Paternò	G. I., 3, 351	vii., 420; 27, 686
" "	" "	"	175	....	Beilstein & Kupffer	B., 6, 1182	27, 153
" "	" "	"	175-178 u. c.	....	Paternò	G. I., 4, 113	27, 688
" "	" "	"	173 (720)	....	Neucki and Ziegler	B., 5, 749	26, 64
" "	" "	"	173-176	....	Fittig, Köbrich, and Jilke	A., 145, 129	26, 696
" "	" "	"	175-178 c.	....	Wright	26, 690	
" "	" "	"	172-175 c.	....	Longuinine	B., 5, 730	26, 383
" "	" "	"	174-175	....	"	A. C. P. [4], 11, 453	
" "	" "	"	177-179	....	Kekulé	Lehrbuch	26, 696
" "	" "	"	175	....	Delalande	(?)	"
" "	" "	"	175-178	....	Longuinine and Lippmann	J., 20, 700; B. S. C. [2], 7, 374	"
" "	" "	"	180	....	Landolph	C. R., 85	32, 864
" "	" "	"	175-178	....	Pott	Z. C. [2], 5, 200	vi., 302
" "	" "	"	177-179	....	Longuinine	(?)	"
" "	" "	"	179 c.	....	Warren	J. [1865], 525	
Methylpropyl benzene (from cumin oil)	" "	"	177.5 (743.7)	....	Kopp	A., 1855 or 1856	ii., 296
" "	" "	"	175-176	....	Longuinine	J. [1867], 692; A. C. P. [4], 11, 153	vi., 278 & 302
" "	" "	"	175.1 (761.4-761.6)	....	Pisati and Paternò	G. I., 3, 551	vii., 420; 27, 1686
" "	" "	"	175	....	Beilstein & Kupffer	B., 6, 1181	27, 152
" "	" "	"	171.5	....	Noad	A., 63, 281; P. M. [3], 32, 15	26, 695; ii., 296
" "	" "	"	175.5-177.5 c.	....	Wright	26, 695	
" "	" "	"	175	....	Gerhardt & Cahours	A., 38, 345	ii., 296

All these natural cymenes on oxidation give first 1.4 toluic acid and then terephthalic and acetic acids

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylpropyl benzene (from cumin oil)		$C_{10}H_{14}$	175	....	Gerhardt	A. C. P. [3], 14, 111	
" "		"	170.7	....	Church	P. M. [4], 9, 256	
" "		"	175-176	....	"	"
" "		"	179.5	....	Warren	M. A. A., 9, 154	
Methylpropyl benzene (from cymyl alcohol)		"	177.25 (761.4-761.6)	....	Pisati and Paternò	G. I., 3, 551	vii., 420; 27, 686
" "		"	174.8	....	Kraut	A., 192, 222	34, 973
Methylpropyl benzene (from absinthol)		"	176	....	Wright	27, 1	
" "		"	175-178	....	"	27, 319	
" "		"	175-178	....	"	27, 320	
" "		"	175	....	Beilstein & Kupffer	A., 170, 295; B., 6, 1183	
" "		"	175	....	Gladstone	(?)	27, 324
Methylpropyl benzene (from citronellol)		"	175-177	....	Wright	27, 323	
" "		"	175-177	....	Wright & Lambert	27, 622	
" "		"	176-179	....	Oppenheim	B., 5, 629	25, 1010; vii., 419
Methylpropyl benzene (from cajepulol)		"	176-177 c.	....	Wright & Lambert	27, 620	
" "		"	175-178	....	Wright	27, 622	
Methylpropyl benzene (from turpentine)	$C_6H_4.Me.Pr^a=1.4$	"	175-178	....	"	"
" "	All these natural cy- menes on oxidation give first 1.4 toluic acid and then terephthalic and acetic acids	"	174-177 c.	....	"	26, 691	
" "		"	176-179	....	Barbier	C. R., 74, 194	25, 240
" "		"	176-179	....	Oppenheim	B., 5, 629	25, 1010; vii., 419
" "		"	175.5-178.5 c.	....	"	B., 5, 96	25, 393; vii., 419
Methylpropyl benzene (from hesperidene)		"	176-177	....	Wright	27, 622	
" "		"	175.5-177.5 c.	....	"	26, 692	
Methylpropyl benzene (from ptychotis)		"	175-176 c.	....	Fittica	A., 172, 30; B., 6, 939	28, 59
Methylpropyl benzene (from nutmeg)		"	173-177 c.	....	Wright	26, 690	
" "		"	176-178 c.	....	"	26, 694	
Methylpropyl benzene (from myristicol)		"	176-178 c.	....	"	26, 688	
" "		"	173-177 c.	....	"	26, 689	
Methylpropyl benzene (from dill oil)		"	175-180	....	Nielsky	A. P. [3], 4, 317	27, 892
Methylpropyl benzene (from kauri gum)		"	174-178	....	Rennie	39, 241	
Methylpropyl benzene (from peppermint camphor)		"	175-178	....	Becket and Wright	29, 2	
Methylisopropyl benzene (isocymene)	$C_6H_4.Me.Pr^b=1.3$	"	176	....	Armstrong & Miller	B., 16, 2258	46, 44
" "	" "	"	174-176	l. -25	Kelbe	A., 210, 1	42, 300
" "	" "	"	173-175	Liquid	"	B., 13, 1159	38, 878
" "	" "	"	171-175	Liquid	Ziegler and Kelbe	B., 13, 1400; 1830	
Methylisopropyl benzene (from rosin oil)	" "	"	170-178	Liquid	Kelbe	B., 13, 1158	38, 878
" "	" "	"	175-178	....	Rénard	A. C. P. [6], 1, 223	46, 844
Methylisopropyl benzene	" "	"	186-188	....	Kelbe	B., 14, 1241	
" "	" =1.4	"	171-172 (765)	l. -20	Jacobsen	B., 12, 431	36, 624
" "	" "	"	175-178	....	Paternò and Spica	G. I., 9, 397	38, 107
Methylpropyl benzene	$C_6H_4.Me.(Pr^a \text{ or } Pr^b)=1.3$	"	173.2-174 c.	...	Spica	B., 16, 792	G. I., 12, 543
Methylpropyl benzene (from animal tar)	" "	"	174-175	....	Weidel & Ciamician	B., 13, 74	38, 404

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylpropyl benzene (from eucalyptus)	$C_6H_4.Me.(Pr^a \text{ or } Pr^b) = 1.4$	$C_{10}H_{14}$	174-175	Liquid	Homeyer	A. P. [3], 5, 293	29, 244
Methylpropyl benzene (from inulol)	" "	"	175	....	Kallen	B., 9, 155	29, 917
Methylpropyl benzene (from tansol)	" "	"	170-175	....	Bruylants	J. P. [4], 26, 393	34, 158
" "	" "	"	175-176	....	"	"	"
Methylpropyl benzene (from rosemary)	" "	"	175	....	"	J. P. [4], 29, 508	36, 726
Methylpropyl benzene (from wormseed oil)	" "	"	174-175; 175-176	....	Græbe	B., 5, 680	25, 1009
" "	" "	"	172-174	....	Kraut & Wahlfoss	"	"
Methylpropyl benzene (from sage oil)	....	"	175-179	....	Siguira and Muir	33, 294	"
Methylpropyl benzene (from wild thyme oil)	....	"	175-177	Liquid	Febve	C. R., 92, 1290	42, 524
Methylpropyl benzene (from terebenthene)	....	"	178-180	....	Rénard	C. R., 90, 531	38, 479
Methylpropyl benzene (from isoterebenthene)	....	"	177	....	Riban	C. R., 79, 223	27, 1162
Methylpropyl benzene (?)	....	"	174-175	....	Gustavson	B. S. C. [2], 26, 346	34, 49
" "	....	"	175	....	Ramsay	39, 64	"
Methylpropyl benzene (from coal naphtha)	....	"	171	....	Mansfield	1, 267	"
" "	....	"	177.5	....	....	....	iv., 2
" "	....	"	179-180	....	Berthelot	B. S. C. [2], 8, 226	vi., 303
Butyl benzene (normal)	$C_6H_5.CH_2.CH_2.CH_2.Me$	"	180	Liquid	Radziszewsky	B., 9, 261	29, 915
" "	"	"	179.5-180.5 c. (748)	<i>l.</i> -16	Balbiano	G. I., 7, 343; B., 10, 296	34, 314
<i>a</i> -Isobutyl benzene	$C_6H_5.CH_2.CHMe_2$	"	167.5	....	Radziszewsky	B., 9, 260	29, 915
<i>a</i> - " " " "	"	"	159-160	Liquid	Riess	Z. C. [2], 7, 39; B., 3, 780	24, 221
<i>a</i> - " " " "	"	"	167	....	Wreden & Znatowicz	B., 9, 1606; C. C. [1877], 6	32, 885
<i>a</i> - " " " "	"	"	166-168	....	Goldschmidt	B., 15, 1066; 1426	"
<i>a</i> - " " " "	"	"	160	....	Pfankuck	J. p. C. [2], 6, 97	vii., 656; 26, 363
<i>β</i> - " " " "	$C_6H_5.CHMeEt$	"	170-172	....	Radziszewsky	B., 9, 261	29, 915
Naphthalene hexhydride	$C_{10}H_8.H_6$	"	195-196 (773.9)	....	Agrestini	G. I., 12, 495	44, 345
" " " "	"	"	195-200	....	Wreden & Znatowicz	C. C. [1877], 6; A., 187, 164; J. R., 9, 183	32, 899; 44, 345
" " " "	"	"	199.5-200	....	Graebe and Guye	B., 16, 3028	46, 608
" " " "	"	"	204-205 (764)	....	Agrestini	G. I., 12, 495; B., 16, 796	44, 345
From mesityl oxide	....	"	193-195	....	...	Z. C. [1867], 689	"
" purpurogallin	....	"	195	....	Clermont & Chautard	C. R., 94, 1362	42, 1066
" acetone	....	"	194-196	....	Fittig & Brückner	A., 147, 42	vi., 298
" coal naphtha	....	"	abt. 196	....	Rommier	B. S. C. [2], 19, 434	26, 888; 34, 900
" wood spirit	....	$(C_{10}H_{14})_n$	a. 300	....	Kraemer & Grodsky	B., 9, 1924	32, 292
Divalerylene	....	$C_{10}H_{16}$	180	....	....	B. S. C., 33, 24; J. [1880], 448	"
Methylisopropyl dihydride	$Me.Pr^b = 1.3$	"	165.5 (748.8)	....	Weidel & Ciamician	B., 13, 73	38, 404
Naphthalene octohydride	....	"	185-190	....	Wreden & Znatowicz	J. R., 9, 183; C. C. [1877], 6	32, 899
Australene	Dextrorotary	"	156.5-157.5	....	Atterberg	B., 10, 1203	33, 82; 34, 79
Austrapyrolene	....	"	177	....	....	....	v., 924
Borneene	....	"	160	....	....	....	i., 626
"	....	"	165	....	....	....	"
"	....	"	173-178	....	Oppenheim & Pfaff	B., 7, 626; A., 164, 78	"
"	....	"	176-180	....	....	A., 40, 327	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Cajeputene ....	....	$C_{10}H_{16}$	160-165	....	Schmidl	J., 13, 481	
Calamene ....	....	"	158-159	....	Kurbatow	B., 6, 1210	vii., 231
Camomillene ....	....	"	175	....	Gerhardt	C. R., 77, 360	26, 1226
Camphene ....	....	"	158-159	47	Armstrong & Tilden	B., 12, 1753	35, 744
" ....	....	"	160	46	....	A. C. P. [5], 6, 353; J. [1858], 441; J. [1869], 333	
"	Laevorotary	"	156-157	45-48	....	"
"	(a) Inactive	"	157 c.	47	....	A. C. P. [5], 6, 370	
" ....	....	"	155-157	....	Orlowsky	B. S. C., 21, 321	
" ....	....	"	156-157 c.	....	Riban	C. R., 76, 547	35, 744
" ....	....	"	156-157	45-47	"	C. R., 80, 1307	28, 1192
" ....	....	"	157	47	"	C. R., 80, 1381	"
" ....	....	"	156	....	"	B. S. C., 21, 173	
" ....	....	"	....	45-47	Montgolfier	A. C. P. [5], 14, 104	34, 901
"	From camphor	"	161	51.2	Kachler & Spitzer	A., 200, 341	38, 324
" ....	"	"	....	57-59	Montgolfier	A. C. P. [5], 14, 5	34, 901
"	" (dextrorotary)	"	158.9-159.9 c. (752.2)	57.5-58.8	Spitzer	B., 11, 1815	36, 168
"	From borneol	"	157	47	Riban	P. J. T. [3], 6, 64	29, 245
"	"	"	160	51-52	Kachler	B., 11, 460; A., 197, 96, 127, 361	34, 512; 36, 1040
"	"	"	160-161	51-52	Kachler & Spitzer	A., 200, 341	38, 324
"	"	"	180	....	....	A., 114, 196	
Camphilene ....	....	"	145	....	....	A., 6, 277; 9, 59; 34, 314; 37, 195; P. A., 22, 199	
" ....	....	"	156	....	....	....	v., 925
Caoutchin ....	....	"	171	....	Williams	J., 13, 495	
" ....	....	"	175	b. — 39	....	A., 27, 30	i., 736
" ....	....	"	177-179	....	Bouchardat	B. S. C. [2], 24, 108	29, 86
Carvene ....	....	"	166	....	Gladstone	....	17, 18
" ....	....	"	173	....	....	....	i., 808
" ....	....	"	175-178	....	Völckel	J., 6, 512	
Cicutene ....	....	"	166	....	Van Ankum	Z. C. [1869], 248; J., 21, 794	
Cinœbene ....	....	"	172	....	Stenhouse	P. J. T., 17, 19	v., 1048
" ....	....	"	172	....	Hirzel	J., 7, 592	
Citrene ....	....	"	165	....	Blanchet and Sell	Gm., 14, 303	i., 994
" ....	....	"	173-174	....	Oppenheim	B., 5, 628	25, 1009
" ....	....	"	176	....	Tilden	P. J. T. [3], 9, 654	36, 386
Colophene ....	....	"	315	....	Gladstone	17, 18	
Cynene ....	....	"	172-174	....	Kraut & Wahlfoos	B., 5, 680	
" ....	....	"	173-175	....	Völckel	A., 89, 358	
" ....	....	"	174-175	....	Graebe	B., 5, 680	25, 1009
Decone	From diamylene	"	155-160	....	....	A., 151, 52	
Diisoprene ....	....	"	174-176	....	Tilden	C. N., 46, 120	44, 75
" ....	....	"	170-180	....	"	....	45, 414
" ....	....	"	176-181	....	Bouchardat	B., 8, 904; B. S. C., 24, 112	
Eucalyptene ....	....	"	172-175	....	Oppenheim & Pfaff	B., 7, 626	
" ....	....	"	173-174	....	Faust and Homeyer	B., 7, 65	
Gaultherilene ....	....	"	160	....	Cahours	A., 52, 331	ii., 826
" ....	....	"	160	....	Biedermann	B., 8, 1677	29, 704
" ....	....	"	168	....	Gladstone	....	17, 18
Geraniene ....	....	"	162-164	....	Jacobsen	A., 157, 239	24, 262
" ....	....	"	162-172	....	"	B., 7, 626	
Hesperidene ....	....	"	163-164	....	Wright	....	26, 551
"	From nutmeg	"	167	....	Gladstone	16, 1	26, 549
"	$C_8H_{12}:CHMe$	"	174	....	Wright and Piesse	C. N., 24, 147; B. A. R., 1871	24, 1186; vi., 877
" ....	....	"	174-175	....	Tilden & Shenstone	....	31, 558

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hesperidene ....	....	$C_{10}H_{16}$	175-177	....	Wright and Piesse	C. N., 24, 147	24, 1187
" ....	....	"	178	....	Wright	....	27, 67 and 622
Isocajputene ....	....	"	176-178	....	Schmid	T. E., 22, 360 ; J. [1860], 481	1, 711 ; 14, 63
Isoterebenthene α- ....	....	"	176-178	....	Berthelot	A. C. P. [3], 39, 16 ; J., 6, 523	
" α- ....	....	"	177	....	Riban	A. C. P. [5], 6, 216 ; C. R., 79, 223	27, 1162
" β- ....	....	"	175	....	Riban	A. C. P. [5], 6, 216 ; C. R., 79, 223	28, 62
Isoterpene	Lævorotary	"	179.3c.(762.6)	....	Flawitzky	B., 12, 2356	38, 403
Licarene ....	....	"	168-172	....	....	C. R., 92, 998 ; 94, 733	
Macene ....	....	"	160	....	Schacht	J., 15, 461	
Olibene ....	....	"	156-158	....	Kurbatow	Z. C. [2], 7, 201 ; A., 173, 2	24, 695 ; 28, 90
" ....	....	"	160	....	....	J. [1874], 919	vil., 873
Paraterebenthene	From turpentine	"	abt. 250	....	Berthelot	A.	v., 921
Phellanthrene ....	....	"	103-104 (80)	....	Pesci	G. I., 13, 496	48, 331
" ....	....	"	171-172 (766)	....	"	"	"
Pilocarpene ....	....	"	178	....	Hardy	J. P. [4], 23, 95	32, 325
" ....	....	"	250	....	"	"	"
Safrene ....	....	"	155-157	....	Grimaux & Ruotti	A., 152, 88	vi., 1014
Sequoiene ....	....	"	155	....	Lunge & Steinkauler	B., 14, 2204	42, 208
Sylvestrene (lævorotary)	From pinus pumilio	"	171-176	....	Atterberg	B., 14, 2531	42, 410
" ....	....	"	173-175	....	"	B., 10, 1203	34, 79 ; 33, 82
Terebangelene α- ....	....	"	175 (22)	....	....	B. S. C., 37, 108	
" β- ....	....	"	166	Liquid	Naudin	C. R., 96, 1152	44, 810
Terebene ....	....	"	156	....	....	....	v., 924
" ....	....	"	156	....	Japp and Wilcock	....	37, 678
" ....	....	"	155-156	l. — 27	Riban	C. R., 76, 1547	28, 1137 ; 33, 84
" ....	....	"	156.25	....	"	C. R., 78, 288	27, 580
" ....	....	"	abt. 160	....	Déville	A. C. P., 15, 37	35, 733
" ....	....	"	160	....	Berthelot	J., 15, 457	
" ....	....	"	160	....	Gladstone	....	17, 18
" ....	....	"	171	....	Piesse	J., 4, 52	
Terebenthene.... from	Rosin oil	"	abt. 150	....	Rénard	B. S. C. [2], 36, 215	42, 64
"	"	"	154-157	....	"	A. C. P. [6], 1, 223	48, 844
"	"	"	171-173	....	"	"	"
"	Turpentine	"	156.25	....	Riban	C. R., 78, 288	27, 580
"	"	"	161	....	....	....	v., 921
" [—]	"	"	a. 175	....	Flawitzky	B. S. C. [2], 34, 342	40, 437
" "	Oil of lemon	"	165	....	"	B. S. C. [2], 34, 171	"
" [+]	"	"	177	....	"	"	"
" "	Angelica	"	175 (o.p.)	Liquid	Naudin	C. R., 93, 1146	42, 410
" "	"	"	87 (22)	....	"	"	"
" [—]	Pinus pumilio	"	156-160	....	Atterberg	B., 14, 2531	"
" ....	....	"	170-173	....	Haller	C. R., 94, 132	42, 738
" ....	....	"	175	....	Flawitzky	B. S. C. [2], 33, 296	38, 559
Terebilene ....	....	"	134	....	....	....	v., 925
Terecamphene ....	....	"	abt. 160	45	....	....	"
Terpene from	Amber	"	160-170	....	....	J. p. C., 26, 79 ; A., 54, 241 ; J. [1850], 494 ; B. J., 24, 619	
"	Anethol	"	157-163	Liquid	Landolph	C. R., 85	32, 864
"	Angelica seeds	"	166	Liquid	Naudin	C. R., 96, 1152	44, 810
"	Angelica archangelica	"	172.5	....	Müller	B., 14, 2483	42, 497
"	"	"	158	....	Beilstein & Wiegand	B., 15, 1741	42, 1300
"	"	"	171-175	....	"	B., 15, 1742	"
"	"	"	176	....	"	"	"
"	"	"	250	....	"	"	"

Name.			Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Terpene	....	.... from	Animal tar	$C_{10}H_{16}$	172.5 (748.5)	....	Weidel & Ciamician	B, 13, 75	38, 404
"	....	.... "	Anise oil	"	160	....	Gladstone	....	17, 18
"	....	.... "	Athamanta oreoselinum	"	163	....	....	A., 51, 336	
"	....	.... "	Bay oil	"	164	....	Blas	J., 18, 569	
"	....	.... "	"	"	171	....	Gladstone	A., 44, 309, 50, 155; J. [1863], 547	17, 18; vi., 608
"	....	.... "	Bergamot	"	175-176	....	"	....	17, 18
"	....	.... "	"	"	183	....	Ohme	A., 31, 317; 35, 313	
"	....	.... "	Birch bark	"	171	....	....	J. [1863], 547	
"	....	.... "	Birch tar	"	156	....	Sobrero	J. P. [3], 2, 207	i., 589
"	....	.... "	Borneol	"	176-180	....	Kachler	A., 164, 75	vii., 206
"	....	.... "	Cajeputol	"	160-166	....	Schmild	....	27, 322
"	....	.... "	"	"	176-178	....	"	....	"
"	....	.... "	Calamus	"	158-159	....	Kurbatow	A., 173, 4	28, 91
"	....	.... "	"	"	250-255	....	....	J. [1874], 919	
"	....	.... "	"	"	255-258	....	Kurbatow	B., 6, 1210; A., 173, 1	27, 259; 28, 91; vii., 231
"	....	.... "	"	"	260	....	Gladstone	....	17, 18
"	....	.... "	Camphor	"	160	....	Montgolfier	A. C. P. [5], 14, 5	34, 900
"	....	.... "	Caraway	"	176	....	Gladstone	....	17, 18
"	....	.... "	"	"	178	....	....	....	42, 43
"	....	.... "	Carvol	"	173	....	Arndt	B., 4, 204; Z. C. [2], 4, 780	vi., 415
"	....	.... "	Cascarilla	"	172	....	Gladstone	....	17, 18
"	....	.... "	"	"	254	....	"	....	"
"	....	.... "	Cedrat	"	173	....	"	....	"
"	....	.... "	CitronelloI	"	168-173	....	Wright	....	27, 322
"	....	.... "	Citrus bigaradia	"	178	....	Luca	C. R., 45, 904	
"	....	.... "	" medica	"	55 (?)	....	Berthelot	J., 6, 521	
"	....	.... "	Cloves	"	142	....	Ettling	A. C. P., 60, 68	i., 1029
"	....	.... "	"	"	249	....	Gladstone	....	17, 18
"	....	[-]	Colophony	"	170-173	....	Rénard	C. R., 92, 887; 94, 727	40, 738
"	[inactive]	"	"	"	171-173	....	"	C. R., 92, 887	40, 739
"	....	.... "	Copal oil	"	160-165	....	Schibler	J., 12, 516	
"	....	.... "	Coriandum sativum	"	178-180	....	Grosser	B., 14, 2492	42, 525
"	....	[-]	Cubebs	"	158-163	....	Schmidt	G. I., 5, 467; B., 8, 1357	30, 642
"	....	.... "	"	"	160	....	Oglialoro	G. I., 5, 467	"
"	....	.... "	"	"	260	....	Gladstone	....	17, 18
"	....	.... "	Cumin	"	155.8	....	Warren	J., 18, 515	
"	....	.... "	Diamylene	"	145-150	....	....	J. R. [1881], 445	
"	....	.... "	Dill oil	"	155-160	....	Nietsky	A. P. [3], 4, 317	27, 892
"	....	.... "	"	"	175	....	"	"	"
"	....	.... "	"	"	173	....	Gladstone	J. [1863], 548	17, 18
"	....	.... "	Dryabalanops camphora	"	180-190, 260	....	Lallemand	A. C. P., 57, 404	i., 729
"	....	.... "	Elder oil	"	172	....	Gladstone	....	17, 18
"	....	.... "	Elemi oil	"	166	....	Stenhouse	A., 35, 304	ii., 483
"	....	.... "	"	"	174	....	Déville	J., 2, 448	"
"	....	.... "	Erechides	"	175	....	Beilstein & Wiegand	B., 15, 2854	44, 346
"	....	.... "	"	"	240-310	....	"	"	"
"	....	.... "	Erigeron Canadense	"	176	....	"	"	"
"	....	.... "	Eucalyptus	"	150-151	....	Faust and Homeyer	B., 7, 1429	28, 371
"	....	.... "	"	"	150-151	....	Homeyer	A. P. [3], 5, 293	29, 244
"	....	.... "	Eucalyp. amygd.	"	171	....	Gladstone	....	17, 18
"	....	.... "	Fennel	"	185-190	....	....	A., 41, 75	
"	....	.... "	Galbanum	"	160-161	....	Müssner	A. P., 99, 257; A., 119, 258	ii., 758
"	....	.... "	Illicium relig.	"	173-176	1. —20	Eykman	B., 14, 1721	40, 918
"	....	.... "	Joberandi	"	178	....	Hardy	U. P., 16, 365	30, 368

Name.			Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Terpene	....	.... from	Juniper	$C_{10}H_{16}$	155	....	....	A., 7, 165; 34, 325	
"	....	.... "	"	"	160	....	....	G. T., 3, 637	iii., 444
"	....	.... "	"	"	163	....	....	Z. C. [1867], 509	
"	....	.... "	Kauri gum	"	157-158	....	Rennie	....	39, 241
"	....	.... "	Lavender	(?)	162	....	Bruylants	J. P. [4], 30, 139	38, 51
"	....	.... "	"	"	200-210	....	"	A., 114, 198	
"	....	.... "	Lemon oil	"	166-168	....	Gladstone	J. [1872], 813	25, 2
"	....	.... "	"	"	173	....	"	....	17, 18
"	....	.... "	"	"	173	....	Blanchet and Sell	....	i., 1004
"	....	.... "	"	"	174-8	....	Regnault	M. A. S., 26, 658	
"	....	.... "	"	"	174-176	....	Tilden	....	35, 287
"	....	.... "	"	"	175	....	Fittig and Krafft	A., 208, 71	42, 42
"	....	.... "	"	"	176	....	Fittig and Sauer	B., 10, 522	32, 432
"	....	.... "	"	"	176.1	....	Brix	....	i., 1004
"	....	.... "	Limes	"	176 u. c.	....	Piesse and Wright	....	32, 549
"	....	.... "	Limett oil	"	176	....	....	J. [1877], 957	
"	....	.... "	Linaloes	"	168-172 (765)	Liquid	Morin	C. R., 94, 733	42, 737
"	....	.... "	Marjoram	"	161	....	Kane	A., 32, 285	iii., 854
"	....	.... "	"	"	160-162	....	Bruylants	J. P. [4], 30, 139	38, 50
"	....	.... "	"	"	178	....	Beilstein & Wiegand	B., 15, 2855	44, 346
"	....	.... "	Mastic oil	"	155-160	....	Jungelaussen	B., 14, 2419 ; A. P. [3], 19, 170	42, 208
"	....	.... "	Mentha crispa	"	168-171	....	Beyer	A. P. [3], 21, 283	46, 331
"	....	.... "	Menthol	"	168.6	....	Atkinson & Yoshida	....	41, 55
"	....	.... "	Mint	"	160	....	Gladstone	....	17, 18
"	....	.... "	Myrtle	"	163	....	"	J. [1863], 548	"
"	....	.... "	Neroli	"	173	....	"	....	"
"	....	.... "	Nutmeg	"	163-164 c.	....	Wright	26, 549, 686 ; 32 549	vii., 862; 27, 67
"	....	.... "	"	"	166-167	....	Gladstone	A., 131, 211	17, 18
"	....	.... "	Orange oil	"	178	....	Piesse and Wright	....	32, 549
"	....	.... "	"	"	180	....	Soubeiran and Capitaine	....
"	....	.... "	Bitter orange	"	178	....	Luca	C. R., 45, 904	i., 1003
"	....	.... "	Sweet orange	"	180	....	....	J. [1860], 479	i., 1002
"	....	.... "	Orange peel	"	174	....	Gladstone	....	17, 18
"	....	.... "	"	"	178 c.	....	Wright	J. [1873], 369	26, 552
"	....	.... "	Parsley	"	157.5-158	....	Fittig and Krafft	A., 208, 71	42, 43
"	....	.... "	"	"	160	....	Gladstone	....	17, 18
"	....	[-] "	"	"	160-164	....	Gerichten	B., 9, 259; A., 208, 75; P. A., 46, 53	30, 78
"	....	.... "	Parsnip	"	160-164	....	"	"	"
"	....	.... "	Patchouli	"	254	....	Gladstone	....	17, 18
"	....	.... "	" Penang	"	257	....	"	....	"
"	....	.... "	" French	"	260	....	"	....	"
"	....	.... "	Pepper	"	167.5	....	....	A., 15, 159; 34, 326	
"	....	.... "	Peppermint	"	175	....	Gladstone	....	17, 18
"	....	.... "	Petit grain	"	174	....	"	....	"
"	....	.... "	Pine oil	"	161	....	Mikolasch	J. [1860], 478	iv., 649
"	....	.... "	Pinus abies	"	167	....	Wöhler	....
"	....	.... "	P. ab. reg. amal.	"	156-159	....	Buckner and Thiel	J., 17, 536	vi., 1
"	....	.... "	Pinus maritima	"	80-100	....	Berthelot	J., 6, 519	
"	....	.... "	" picea	"	168-173	....	Flückiger	J., 8, 643	
"	(templin oil)	.... "	" pumilio	"	161	....	Buckner	J., 13, 479	
"	....	.... "	"	"	161	....	Atterberg	B., 14, 2532	
"	[-]	.... "	"	"	250 d.	....	"	B., 14, 2531	42, 410
"	[-]	.... "	"	"	172	....	Flückiger	J. [1856], 642	v., 719
"	....	.... "	" sylvestris	"	155.5-156.5	....	Flawitzky	B. S. C. [2], 30, 433	36, 168
"	....	.... "	"	"	156-159	....	Tilden	....	33, 83
"	....	.... "	"	"	171	....	"	....	"
"	....	.... "	Poplar oil	"	260-261	....	Piccard	B., 6, 890	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Terpene from	Ptychotis ajowan	$C_{10}H_{16}$	172	....	Stenhouse	J., 9, 624	v., 792
" "	Resina gardenia lucida	"	158	....	....	A., 200, 315	
" "	" gualaci Peruviana aromatica v. odorata	"	168	....	Kopp	A. P. [3], 9, 193	31, 716
" "	Resin spirit	"	160	....	Schiel	A., 115, 96	41, 168
" "	Rosemary	"	157-160	....	Bruylants	J. P. [4], 29, 508	36, 725
" "	"	"	163	....	Gladstone	....	17, 18
" "	Rosewood	"	249	....	"	J. [1863], 549	17, 18; vii., 116
" "	Sage oil	"	152-156	....	Muir and Siguira	....	33, 293
" "	"	"	156	....	Muir	....	37, 679
" "	"	"	157	....	"	....	37, 689
" "	"	"	158-160	....	Tilden & Shenstone	....	31, 557
" "	"	"	162-167	....	Muir and Siguira	....	33, 293
" "	"	"	167	....	Muir	....	37, 679
" "	"	"	168-176	....	Tilden & Shenstone	....	31, 557
" "	"	"	178-180	....	Jahns	B., 15, 819	42, 1065
" "	Salviol	"	abt. 172	....	Muir	....	37, 683
" "	Sandal-wood	"	185-200	....	....	B. S. C., 37, 303	
" "	Essence of savory	"	172-175	....	Haller	C. R., 94, 132	42, 737
" "	"	"	180-185	....	"	"	"
" "	Spikoil	"	175	....	....	A., 114, 197	
" "	Oil of tansy	"	155-160	....	Bruylants	B., 11, 452	34, 512
" "	"	"	160-165	....	"	"
" "	Terebenthene	"	157	Liquid	Barbier	C. R., 96, 1066	44, 809
" "	"	"	157	Liquid	"	"	"
" "	"	"	173	....	Montgolfier	C. R., 87, 840	36, 329
" "	Thyme oil	"	160	....	Gladstone	....	17, 18
" "	"	"	160-165	....	....	A., 102, 119	
" [-] "	Turpentine	"	155	....	Flawitzky	B., 12, 2357	38, 403
" "	"	"	abt. 159	....	Wright	....	27, 622
" "	"	"	160-161	....	Oppenheim	B., 5, 628	25, 1009; 32, 549
" "	" (laurel)	"	160	....	Gladstone	....	17, 18
" "	" (Russian)	"	171	....	Tilden	....	33, 81
" "	"	"	173	....	Letts	B., 13, 796	38, 669
" "	Valerian oil	"	155-157	....	Bruylants	J. P. [4], 27, 349	34, 800
" "	"	"	155-160	....	"	B., 11, 453	
" "	Wormwood oil	"	abt. 150	....	Wright	....	27, 317
" "	"	"	b. 160	....	Beilstein & Kupffer	B., 6, 1183	27, 153, 324
" "	(?)	"	150	....	....	B. S. C., 36, 215	
" "	(?)	"	158	....	Stenhouse & Groves	....	35, 691
" "	(?)	"	159-15	....	Regnault	G. J. C., 1862	
" "	(?)	"	160-162	....	Landolt	G. J. C., 1877	
" "	(?)	"	169-173	....	....	B. S. C., 36, 215	
Terepentine ....	....	"	b. 180	....	Berthelot	A.	v., 921
Terpinene ....	....	"	176.5-181.5	....	Walitzky	C. R., 94, 96	42, 411
Terpilene (terpylene) ....	....	"	176	....	Tilden	C. N., 39, 256	36, 944
" .... "	....	"	176-178	....	"	B., 12, 1132	33, 250
" .... "	....	"	abt. 178	....	Armstrong & Tilden	B., 11, 1754	35, 758
" .... "	....	"	176-181	....	Bonchardat	C. R., 80, 1446	28, 1259
Thymene ....	....	"	160-165	....	Lallmand	A. C. P. [3], 49, 135	v., 792
Tolene ....	....	"	154-160	....	Kopp	A., 44, 304; 97, 72	v., 851
" .... "	....	"	170	....	Deville & Scharling	A., 64, 372	"
Turpentine oil ....	....	"	155	....	Pictet	P. M. [5], 1, 484	32, 163
" .... "	....	"	156	....	Tilden	C. N., 39, 256	36, 943
" .... "	....	"	159-2	....	Regnault	M. A. S., 26, 658	
" .... "	....	"	160	....	Wright	....	26, 549
" .... "	....	"	160	....	Gladstone	....	17, 18
" .... "	....	"	160	....	Thorpe	....	37, 151
" .... "	....	"	165	....	Blanchet and Sell	....
Xanthoxylene ....	....	"	162	....	Stenhouse	A., 104, 237	v., 1054
Meta-austraterebenthene ....	....	$(C_{10}H_{16})_n$	abt. 360	....	....	....	v., 924

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Terpene	From borneol	$(C_{10}H_{16})_n$	250-280	....	Kachler	A., 164, 75	vii., 206
From turpentine hydrochloride	$(C_{10}H_{17})_n$	157-158	94	Letts	B., 13, 794	38, 669
Naphthalene decahydride	$C_{10}H_{18}$	175-180	....	Wreden and Znato-wicz	C. C. [1877], 6 ; B.S.C.[2], 26, 449	32, 466, 899
Camphenedihydride	$C_{10}H_{16}H_2$	"	163	....	Montgolfier	A.C.P.[5], 19, 145	
"	"	"	165	....	Berthelot	C. R., 67, 327	vi., 1111
"	"	"	159-160	120	Montgolfier	C. R., 87, 840 ; A.C.P.[5], 19, 145	36, 328 ; 38, 699
"	"	"	140 c.	Kachler and Spitzer	B., 13, 616	38, 669
Camphin (?)	"	167-170	....	....	J. p. C., 25, 264	
Menthene	"	163	....	Walter	A., 32, 288	iii., 880
"	"	163	....	Oppenheim	15, 29	39, 81
"	"	164.5-165.5	....	Becket and Wright	....	29, 2
"	"	162-167	....	Moriya	....	39, 81
"	"	167.4 c.	Liquid	Atkinan & Yoshida	....	41, 53
Rutylene	"	abt. 150	....	Bauer	A., 135, 344	v., 141
"	"	156.5-158	....	Harting	J. p. C. [2], 23, 449	40, 795
Sebacin	"	a. 300	55	Petersen	A., 103, 187	v., 214
Decenylene	"	abt. 165	....	Reboul and Truchôt	B. S. C. [2], 8, 42	vi., 52
Decin	"	154-157	....	....	C. R., 94, 727 ; 95, 245	
"	"	157-158	152 (?)	....	A.C.P. [5], 19, 148	
" from Campher	"	163	....	Weyl	B., 1, 96	
"	"	170-175	....	Berthelot	B. S. C. [2], 11, 3	vii., 423
From calamus oil	"	158-159	....	Kurbatow	B., 6, 1210	27, 259
From allyldipropylcarbinol	"	158	Liquid	Reformatsky	J. p. C., 27, 389	44, 1074
" ?	"	127	Riche	R. C. p. [2], 127	v., 213
" ?	"	163	....	Weyl	Z. C. [2], 4, 496	vi., 387
From terebenthene	"	163	Liquid	Montgolfier	C. R., 87, 840	36, 328
Decylene	$C_{10}H_{20}$	158-160	....	....	J. [1863], 529	vi., 710
"	"	161.5	....	Lachowicz	A., 220, 168	46, 166
"	"	165	....	Berthelot	B. S. C. [2], 11, 3	vii., 423
"	"	170-172	....	....	A., 165, 22	
" from Fish brine	"	174.6	....	Warren and Storrer	Z. C. [1868], 230 ; J., 21, 332	
"	"	175.8	....	....	Z. C. [1868], 231 ; J., 21, 331	
Diamylene (paramylene)	"	165	....	Balard	A.C.P.[3], 12, 320	iii., 416
"	"	165	....	Bauer	J., 14, 660	vi., 122
"	"	165	....	Etard	C. R., 86, 488	34, 393
"	$Pr^3(CH_2)_3.CHM.c.CH : CH_2$	"	150-153 (721)	....	Schneider	A., 157, 208	vii., 64
Cymene hexhydride	"	153-158	....	Wreden	A., 187, 164	32, 445
"	"	155-160	....	Wreden & Znato-wicz	B.S.C.[2], 26, 440	32, 466
"	"	171-173	....	Rénard	A. C. P. [6], 1, 223	46, 844
Naphthalene dodecahydride	"	155	....	Wreden & Znato-wicz	C. C. [1877], 6	32, 899
Terpilene tetrahydride	"	170-175	....	Berthelot	C. R., 67, 327	vi., 111
"	"	170 c.	Liquid	Montgolfier	C. R., 89, 102	36, 944
Terpene tetrahydride	Isomers	"	155-160 ; 160-162 ; 162-167	....	Orlow	B., 16, 799	
Action of PH_4I on turpentine	"	160	....	Baeyer	A., 155, 276	vii., 657
Action of I on turpentine	"	abt. 160	....	Armstrong	B., 12, 1758	38, 125
" " "	"	abt. 170	....	"	"	"
From crude terebene	"	abt. 170	....	Armstrong & Tilden	....	35, 745
Action of HI on campher	"	170-175	....	Weyl	Z. C. [2], 4, 496	vi., 387
From carvol	"	176-178	....	Arndt	Z. C. [2], 4, 730	vi., 415
Decane	$CH_3.(CH_2)_8.CH_3$	$C_{10}H_{22}$	107 (100) ; 173 (760)	-32	Krafft	B., 15, 1695	42, 1271
"	"	"	171	....	....	A., 184, 202	
"	"	"	169.5	....	Lachowicz	A., 220, 168	46, 166

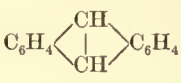
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Decane	....	$C_{10}H_{22}$	166-168	....	Thorpe and Young	A., 165, 23	
"	....	"	162-163	....	Lachowicz	A., 220, 188	46, 166
"	....	"	160	....	Berthelot	B. S. C. [2], 8, 226	vi., 3
"	....	"	158-162	....	Pelouze & Cahours	J., 16, 524	v., 1090
"	....	"	158-160	....	Cahours & Demarçay	C. R., 80, 1571	
"	.... from Boghead naphtha	"	159	....	....	....	iv., 2
"	....	"	155-162	....	Berthelot	B. S. C. [2], 11, 3	vii., 422
"	....	"	155-160	....	Cloez	C. R., 85, 1003	34, 482
"	....	"	155-157	....	Wurtz	J., 16, 510	v., 1090
"	....	"	152	....	Lachowicz	A., 220, 188	46, 166
Diisoamyl	$Me_2CH.(CH_2)_4.CHMe_2$	"	155-159	....	....	....	i., 202
"	"	"	155 (728)	....	Frankland	3, 31	26, 679
"	"	"	157.1	Liquid	Lachowicz	A., 220, 168	46, 166
"	"	"	158	....	Wurtz	A. C. P. [3], 44, 281	32, 260
"	"	"	158-159	....	Schorlemmer	P. R. S., 14, 172	"
"	"	"	159	....	Williams	J., 10, 418	
"	"	"	160 (751)	....	Grimshaw	....	32, 261
Isobutyl hexyl	$C_6H_{13}.CH_2.CHMe_2$	"	155	....	Wurtz	J., 8, 576	i., 97
"	"	"	155-160	....	....	....	v., 732
(?)	"	"	155-160	....	Berthelot	C. R., 67, 327	vi., 1111
α -Methyl naphthalene	$C_{10}H_7.Me$	$C_{11}H_{10}$	230-232	....	Ciamician	Ber., 11, 272	34, 439
α - "	"	"	230-232	....	"	W. A., 83, 346	40, 247
α - "	"	"	230-231	....	Goldschmidt and Schidt	W. A. [2], 83, 7	40, 824
α - "	"	"	231-232	<i>l.</i> -18	Fittig and Remsen	A., 155, 114	vi., 849; 40, 824; 44, 1135
β - "	"	"	242	....	Emmedt and Reingruber	A., 211, 365	42, 733
β - "	"	"	242-243	<i>a.</i> -18, <i>s.</i> -18 to -20	Reingruber	A., 206, 375	40, 436
Colophthalin	....	"	400	70	....	J. [1874], 921	
Phenyl pentylene	$CH_3.CH_2.CHPh.CH:CH_2$	$C_{11}H_{14}$	173-177	....	Dafert	M. C., 4, 616	44, 1094
"	$Ph.C_5H_9$	"	210-215	Liquid	Schramm	A., 218, 383	44, 977
" isopentylene	"	"	200.5-201.5	Liquid	"	"	"
Tolyl butylene	$C_6H_4.Me.(CH_2.C_3H_6)=1.3$	"	195	....	Aronheim	B., 9, 1790	
Isopropyl cinnamene	$Pr^2.C_6H_4.CH:CH_2$	"	195-200	....	Perkin	....	32, 401
"	"	"	203-204	Liquid	"	....	32, 663
" (polymer)	....	$(C_{11}H_{14})_n$	....	Solid	"	....	"
Pentamethyl benzene	$C_6H_5.Me_5$	$C_{11}H_{16}$	230	<i>s.</i> 0	Ador and Rilliet	B., 12, 332	36, 527
"	"	"	215	13	....	B. S. C., 28, 147	
"	"	"	225	50	Friedel and Crafts	C. R., 91, 257	40, 40
Propyldimethyl benzene	$C_6H_3.Me_2.Pr=1.3.5$	"	206-210	....	Jacobsen	B., 8, 1259	
Propyldimethyl benzene (α -Laurene)	" =1.3.4	"	190-191	....	Reuter	B., 16, 627	
Propyldimethyl benzene (β -Laurene)	" =1.2.4	"	184-186	....	"	B., 16, 628	
Propyldimethyl benzene (Laurene)	" = (?)	" (see $C_{10}H_{14}$)	188	....	Fittig, Köbrick, and Jilke	A., 145, 149	vi., 304
Diethylmethyl benzene	$C_6H_3.Me.Et_2=1.3.5$	"	198-200	....	Jacobsen	B., 7, 1434	28, 259
Propylethyl benzene	$C_6H_4.Et.Pr=1.3$	"	193-195	....	Rénard	C. R., 97, 328; A. C. P. [6], 1, 223	46, 173, 844
Butylmethyl benzene	$C_6H_4.Me.C_4H_9=1.4$	"	176-178	Liquid	Kelbe and Baur	B., 16, 2563	46, 300
Isobutylmethyl benzene	$C_6H_4.Me.(CH_2.CHMe_2)=1.3$	"	186-188	Liquid	"	B., 14, 1240; 16, 2559	"
"	" =1.3	"	185	....	Effront	B., 17, 419	46, 900
"	" = (?)	"	190-195	....	Goldschmidt	B., 15, 1067	
Amyl benzene	$Ph.(CH_2)_4.Me$	"	200.5-201.5 (743)	Liquid	Schramm	A., 218, 383	44, 977
Isoamyl benzene	$Ph.CH_2.CH_2.CHMe_2$	"	193	....	"	"	"
"	"	"	195	....	Tollens and Fittig	A., 131, 313	iv., 476
"	"	"	193	....	Bigot and Fittig	A., 141, 160	vi., 303

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Amyl benzene	Ph.CHEt ₂	C ₁₁ H ₁₆	178-180	Liquid	Dafert	M. C., 4, 153, 616	44, 659, 1094
" "	"	"	178	Liquid	Lippmann and Longuinine	B. S. C. [2], 8, 426	vi., 304
" "	Ph.CMe ₂ .Et	"	185-190	....	Essner	B. S. C. [2], 36, 212	42, 46
" "	"	"	185-190	Liquid	Friedel and Crafts	C. R., 84, 1392	32, 725
" "	Ph.C ₅ H ₁₁	"	178	....	....	Z. C. [1867], 674	
" "	"	"	182-184	....	....	W. A., 4, 153	
From betulin ....	....	"	245-250	....	Paternò and Spica	G. I., 7, 508	34, 569
" animal tar ....	....	C ₁₁ H ₁₈	182	....	Weidel & Ciamician	B., 13, 80	38, 404
" " " ....	....	"	202-203	....	" "	B., 13, 81	"
β-Paracotene ....	....	"	170-172	....	....	A., 199, 78	
Butylidene ....	....	C ₁₁ H ₂₀	198-202	....	....	Z. C. [1870], 431	
"	C ₉ H ₁₉ .C≡CH	"	210-215	....	....	B., 8, 413	
Undecylene ....	....	C ₁₁ H ₂₂	192-193	....	Giesecke	Z. C., 6, 431	vii., 808
" ....	....	"	193-195	....	....	A., 165, 23	
" ....	....	"	195.8	....	Warren	J., 21, 330	
" ....	....	"	195.9	....	Warren and Storer	Z. C. [1868], 231 ; J., 21, 332	
" ....	....	"	195.2	....	" "	Z. C. [1868], 230 ; J., 21, 332	
Undecane	CH ₃ (CH ₂) ₉ .CH ₃	C ₁₁ H ₂₄	194.5 (760); 127 (100); 108.5 (50); 96.5 (30); 81 (15); 74 (11)	-26.5	Krafft	B., 15, 1697 & 1698	42, 127
" ....	....	"	180-184	....	Pelouze & Cahours	J., 16, 524	iii., 181
" ....	....	"	180-185	....	Amato	G. I., 2, 6	25, 682
" ....	....	"	178-180	....	Cloez	C. R., 85, 1003	34, 482
" ....	....	"	176-178	....	Cahours & Demarçay	C. R., 80, 1571	
Hartite ....	....	(C ₁₂ H ₅) _n	....	74	....	J. [1856], 889 ; J. [1869], 1248	
Acetylene naphthalene	C ₁₀ H ₆ $\begin{array}{c} \text{CH} \\ \parallel \\ \text{CH} \end{array}$	C ₁₂ H ₈	....	92-93	Behr and Van Dorp	A., 172, 263 ; B., 6, 753	27, 1168 ; 26, 1135
" "	"	"	265-275 p. d.	....	Blumenthal	B., 7, 1092	
Petrocin ....	....	(C ₁₂ H ₈) _n	101-102	....	....	A. C. P. [5], 17, 43	
Diphenyl	C ₆ H ₅ .C ₆ H ₅	C ₁₂ H ₁₀	240	70.5	Fittig	A., 121, 363	iv., 409
" ....	"	"	....	69	List and Limpricht	A., 90, 209	"
" ....	"	"	....	69	Riese	G. J. C., 1872	
" ....	"	"	....	70	Griess	P. T. [1864] [3] 692	iv., 409
"	"	"	254	70	Schultz	A., 174, 201	28, 148
" ....	"	"	....	71	Richter	J. p. C. [2], 28, 273	46, 325
" ....	"	"	....	70-73	Carnelley	....	29, 19
" ....	"	"	....	71.5-74.5	"	....	"
"	"	"	250	70	Berthelot	G. J. C., 1870	
"	"	"	243	70	Smith	....	32, 552
" ....	"	"	....	70	Merz and Weith	B., 10, 755	32, 603
" ....	"	"	....	70-71	Coste and Michaelis	B., 11, 1884	36, 161
"	"	"	245-258	70	Carnelley	....	37, 706
" ....	"	"	....	70	Ladenburg	G. J. C., 1871	
" ....	"	"	....	70.5	Brønner	G. J. C., 1869	
"	"	"	238.5	69.6	Christomanos	G. I. [1875], 402	37, 760
" ....	"	"	....	70	Goldschmidt and Schidt	W. A., 83 [2], 7	40, 824
" ....	"	"	....	70	Fittig & Ostermeyer	G. J. C., 1879	
"	"	"	257	....	Carnelley & Williams	33, 282	
Acenaphthene (ethene naphthalene)	C ₁₀ H ₆ $\begin{array}{c} \text{CH}_2 \\ | \\ \text{CH}_2 \end{array}$	"	285 c.	a. 100	Berthelot	B. S. C. [2], 8, 226	vi., 3
" "	"	"	270-280	99-100	Græbe	B., 5, 16	25, 295 ; vii., 834
" "	"	"	267-269 u. c.	94-96	Behr and Van Dorp	B., 6, 60	26, 1167 ; vii., 834
" "	"	"	277.5 c.	95	" "	A., 172, 263	27, 1167

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Diet. & J. Ch. Soc.
Acenaphthene (ethene naphthalene)	$C_{10}H_8 \begin{array}{c} \diagup CH_2 \\ | \\ \diagdown CH_2 \end{array}$	$C_{12}H_{10}$	....	94	Goldschmiedt and Schidt	W. A., 83 [2], 7	40, 824
Dimethyl naphthalene	$C_{10}H_6.Me_2$	$C_{12}H_{12}$	a. 265 p. d. 262-264(751)	l. — 18 Liquid	Giovannozzi Cannizzaro and Carnelutti	G. I. [1882], 147 G. I., 12, 393	42, 855 44, 79
" " isomeric	"	"	252-254	....	....	A., 211, 365	
" " "	"	"	260-262	....	....	"
α -Ethyl naphthalene	$C_{10}H_7.Et$	"	250	....	Fittig and Remsen	Z. C. [2], 5, 37	vi., 849
α - " "	"	"	100 (2-3); 257-259.5 (757.7)	....	Carnelutti	B., 13, 1672	40, 280
α - " "	"	"	251-252	....	Fittig and Remsen	A., 155, 119	40, 824
" " "	"	"	252-260	....	Goldschmiedt and Schidt	W. A., 83 [2], 7	"
" " "	"	"	251	Liquid	Marchetti	G. I., 11, 439	42, 410
Gnajene	....	"	....	97-98	Bötsch	M. C., 1, 609	42, 211
" " "	....	"	....	100-101	Weiser	W. A. [2 ab.], 464	40, 813
(?) hydride	....	"	abt. 270	....	Berthelot	Z. C. [1867], 714	vi., 3
Butenyl cinnamene	$Ph.CH:CH.C_4H_7$	$C_{12}H_{14}$	245-248	....	Perkin	....	35, 142
(?)	....	"	abt. 69	....	Berthelot	A. C. P. [3], 15, 150	36, 376
Isopropyl allybenzene	$Pr^{\beta}.C_6H_4CH:CH.Me$	$C_{12}H_{16}$	229-230	l. — 15	Perkin	....	32, 664
(?)	....	"	222	....	....	B., 9, 12	
Hexamethyl benzene	C_6Me_6	$C_{12}H_{18}$	230-240	136 (163 ?)	Hoffmann	B., 5, 721	25, 1024; vii., 59
" " "	"	"	259-260	150	Le Bel and Greene	C. R., 87, 260	36, 50
" " "	"	"	260	150	Ador and Rilliet	B., 12, 332	36, 527
" " "	"	"	....	150	....	D. P., 237, 146	38, 864
" " "	"	"	258-260	150	Reichardt	B. C. [1880], 559	38, 865
" " "	"	"	250	160	....	J. R., 13, 392	
" " "	"	"	253	163	Hoffmann	B., 13, 1729	40, 260
" " "	"	"	264	164	Friedel and Crafts	C. R., 91, 257	40, 40
Triethyl benzene	$Et_3 = 1.3.5$	"	217-220	....	Jacobsen	B., 7, 1435	28, 259
" " "	"	"	214-218	....	Friedel and Balsohn	B. S. [2], 34, 635	40, 259
Dipropyl benzene	$Pr^{\alpha}.Pr^{\alpha} = 1.4$	"	220-222	Liquid	Körner	B., 11, 1863	36, 142
" " "	"	"	218-220	Liquid	"	A., 216, 223	44, 321
Propylisopropyl benzene	$Pr^{\beta}.Pr^{\beta} = 1. ?$	"	205-208	....	Paternò and Spica	G. I., 6, 99	31, 77
" " "	" = 1.4	"	211-213 c.	....	" "	B., 10, 1746	34, 139
Isoamylmethyl benzene	$Me.(CH_2.CH_2.CHMe_2) = 1.2$	"	203-205 u. c.	l. — 20	Pabst	B., 9, 503	
" " "	" = 1.4	"	213	b. — 20	Bigot and Fittig	A., 141, 162	vi., 304
Amylmethyl benzene	$Me.C_5H_{11} = ?$	"	213-218	....	Etard	C. R., 97, 909	46, 312
Isohexyl benzene	$Ph.(CH_2)_3.CHMe_2$	"	214-215	....	Aronheim	A., 171, 223	27, 689
" " "	"	"	212-213	....	Schramm	A., 218, 383	44, 977
Ethyl (or ethylene) cymene	$C_6H_5.Et.Me.Pr.$ or $C_6H_4Me(C_2H_4.Pr)$	"	185-190	....	Landolph	C. R., 86, 1267	34, 721
α -Paracotene	....	"	160	....	....	A., 199, 77	
Cynene	....	" (?)	173-175	....	Völckel	A. P., 89, 358	ii., 299
Eucalyptene	See $C_{10}H_{16}$	"	165	....	Cloez	A., 154, 372	vii., 494
Eucalyptolene	....	"	a. 300	....	"	"	"
(?)	....	"	215	....	....	Z. C. [1866], 223	
From betulin	....	"	250-255	....	Franchimont and Wignaan	B., 12, 9	36, 469
Ethel terpene (eterpene)	$C_{10}H_{15}.Et.$	$C_{12}H_{20}$	153 u. c.	63.5	Meyer and Spitzer	B., 9, 880	30, 515
" camphene	"	"	197.9-199.9 c. (742.1)	Liquid	Spitzer	B., 11, 1817	36, 168
From acetone	....	"	170-180	....	....	A., 140, 301	
" allyldimethylcarbinol	....	"	196-198	l. in f. m.	Nikolsky & Saytzeff	J. p. C., 27, 380	44, 1074
" carbazolin	....	"	225	....	....	A., 163, 356	
" animal oil	....	"	210	....	....	A., 139, 245	
Naphthol (?)	....	$C_{12}H_{22}$	190	....	....	B. J., 21, 473	
From diallyldihydriodide	....	"	190-200	....	Wurtz	B. S., 2, 164	vi., 94

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
From anethol (Wright)	$(\text{CH}_2 \begin{smallmatrix} \text{CH}_2 - \text{CH}_2 \\ \text{CH}_2 - \text{CH}_2 \end{smallmatrix} \text{CH} -)_2$	$\text{C}_{12}\text{H}_{22}$	210-212	....	Landolph	C. R., 82, 849	30, 79
Duodecylene ....	....	$\text{C}_{12}\text{H}_{24}$	208.3-214.6 c.	....	Warren and Storer	Z. C. [1868], 231	
" ....	....	"	212.6 c.	....	" "	Z. C. [2], 4, 230	vi., 547
" ....	....	"	216.2	....	Warren	J., 21, 330	
" ....	....	"	96 (15)	- 31	Krafft	B., 16, 3018	46, 572
Dihexylene	Isomeric (?)	"	193-197	....	....	A., 195, 262	
"	" (?)	"	196-199	....	....	"
Triisobutylene ....	....	"	173-176	....	Butlerow and Gorgainon	B., 6, 561; A., 169, 196	26, 873; 27, 138
" ....	....	"	174-176	....	Dobbin	....	37, 240
" ....	....	"	177.5-178.5	....	"	....	37, 241
" ....	....	"	174-178	....	"	....	37, 246
"	$(\text{Me}_3\text{C})_2\text{C} : \text{CMe}_2$	"	177.5-179 (749)	Liquid	Butlerow	B., 12, 1482	38, 230
" ....	....	"	180	....	Puchot	A. C. [5], 28, 507	46, 167
(?)	....	"	170	....	Brazier & Gossleth	....	iv., 177
Duodecane	$\text{Me}(\text{CH}_2)_{10}\text{Me}$	$\text{C}_{12}\text{H}_{26}$	214.5 (760); 145.5 (100); 126 (50); 113.8 (30); 98 (15); 90.5 (11)	-12	Krafft	B., 15, 1698; B., 16, 1714	42, 1271; 44, 1076
"	"	"	202	....	Schlorlemmer	P. R. S., 16, 367	24, 896; vii., 891
" ....	....	"	195-198	....	Cloez	C. R., 1003	34, 482
" ....	....	"	196-200	....	Pelouze & Cahours	J., 16, 524	iii., 181; vi., 547
" ....	....	"	abt. 200	....	Cahours & Demarçay	C. R., 80, 1571	
" ....	....	"	201	....	Schorlemmer	A., 161, 277	
Dihexyl	$\text{C}_6\text{H}_{13}\cdot\text{C}_6\text{H}_{13}$	"	202	....	Brazier & Gossleth	J., 3, 400	
"	"	"	202	....	Wurtz	A. C. [3], 44, 275	iii., 151; iv.,
"	"	"	202	....	Schorlemmer	P. T. [1872], 111	25, 1085; vii., 645
"	"	"	202	....	Williams	J., 10, 418	
α -Methylene diphenylene (fluorene)	$\text{C}_6\text{H}_4 \begin{smallmatrix} \text{CH}_2 \\ \text{C}_6\text{H}_4 \end{smallmatrix}$	$\text{C}_{13}\text{H}_{10}$	300-305	113-114	Græbe & Gebhard	A., 174, 194	37, 717
α - " " " " " " " "	"	"	294-295	112-113	Fittig and Schmitz	A., 193, 134	"
α- " " " " " " " "	"	"	....	113-114	Fittig	B., 6, 187	26, 755
α - " " " " " " " "	"	"	290-310	112-113	Græbe	B., 7, 1624	28, 455
β - " " " " " " " "	"	"	abt. 305	113	Barbier	A. C. [5], 7, 472; C. R., 77, 442	31, 71; 26, 1226
β- " " " " " " " "	"	"	....	113	Hodgkinson and Matthews	43, 164	
β - " " " " " " " "	"	"	300-305	....	Berthelot	A. C. [4], 12; 222	vii., 524
?-Methylene diphenylene (?)	"	(?)	....	113	Barth and Goldschmiedt	B., 11, 847	34, 734
γ - " " " " " " " "	"	"	295	118	Carnelley	37, 708	
γ- " " " " " " " "	"	"	....	118	Hodgkinson and Matthews	43, 164	
?- " " " " " " " "	"	"	....	124	Hodgkinson and Matthews	"	
?- " " " " " " " "	"	(?)	....	199-200	Stædel	B., 6, 189	26, 755
δ - " " " " " " " "	$\text{C}_6\text{H}_4 \begin{smallmatrix} \text{CH}_2 \\ \text{C}_6\text{H}_4 \end{smallmatrix}$	"	320	205 u. c.; 208 c.	Carnelley	37, 710	
Benzhydrolene ....	....	"	....	209-210	Linnemann	A., 133, 1	iv., 480
Sequoiene ....	....	"	290-300 u. c.	105	Lunge & Steinkauler	B., 13, 1657; 14, 2203	40, 98

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
From α -Benzopinacolin ....	....	$C_{13}H_{10}$	....	243-244	Thörner and Zincké	B., 11, 1397	34, 874
„ Ca-phthalate ....	....	„	....	243-244	Miller	B., 12, 1489	38, 255
Diphenylmethane (benzyl benzene)	$CH_2 \cdot Ph_2$	$C_{13}H_{12}$	261-262	24-25	Zincké	B., 4, 299	24, 508; vii., 183
„ „	„	„	....	26.4	Jene	A., 155, 86	vii., 158
„ „	„	„ (†)	255-265		Stædel	B., 6, 189	26, 755
„ „	„	„	261-262		Græbe	B., 7, 1630	28, 454
„ „	„	„	260		Friedel and Crafts	C. R., 84, 1450	32, 864
„ „	„	„	263	26	Stædel	A., 194, 253, 307	36, 318
„ „	„	„	261	26	Engler	B., 11, 927	
„ „	„	„	200-300	....	Fischer	A., 194, 242	36, 384
Tolylphenyl (phenyltoluene)	$C_6H_4 \cdot Me \cdot Ph = 1.2$	„	255-260	Liquid	Barbier	A. C. [5], 7, 472	31, 74
„ „	„ „	„	258-260	Liquid	„	B., 7, 1548	29, 13
„ „	„ = 1.4	„	263-267 u. c.	-2 to -3	Carnelley	29, 18	
„ „	„	„	263-268	....	„	37, 707	
Isopropylbutenyl benzene (β)	$C_6H_4Pr^{\beta} \cdot C_4H_7$	$C_{13}H_{18}$	234-235	....	Perkin	....	35, 141
„ „	„	„	242-243	Liquid	„	....	32, 665
Dipropylmethyl benzene	$C_6H_3Pr^{\alpha} \cdot Me = 1.3.5$	$C_{13}H_{20}$	243-248	....	Jacobsen	B., 8, 1259	42, 627
Amyldimethyl benzene	$C_6H_3 \cdot C_5H_{11} \cdot Me_2$	„	232-233	....	Bigot and Fittig	A., 141, 168	vi., 304
From photosantonio acid ....	....	„	221.5-223	....	Sestini and Danesi	G. I., 12, 82	42, 627
„ gum ammoniac ....	....	„	235	....	Ciamician	G. I., 9, 304	38, 126
Tridecylene ....	....	$C_{13}H_{26}$	230-231; 232.7 c.	....	Warren and Storer	Z. C. [1868], 232; J., 21, 332	
Tridecane	$Me \cdot (CH_2)_{11} \cdot Me$	$C_{13}H_{28}$	234 (760); 142.5 (50); 130 (30); 114 (15); 106.5 (11)	-6.2	Krafft	B., 15, 1699	42, 1271
„	....	„	218-220	....	Pelouze & Cahours	J., 16, 524	iii., 181; v., 880
„	....	„	215-220	....	Cloez	C. R., 85, 1003	34, 482
Phenanthrene	$C_6H_4 \cdot CH$ $C_6H_4 \cdot CH$	$C_{14}H_{10}$	Much a. 300	97-99	Fittig & Ostermeyer	B., 5, 934	25, 177; vii., 85
„	„	„	339-342	98-99	Schmidt	B., 7, 206; 12, 1159	27, 581
„	„	„	340 c.	100	Græbe	B., 5, 861; 7, 48	26, 175; vii., 85
„	„	„	....	96	Limpricht	B., 6, 532	26, 897
„	„	„	....	100	Goldschmiedt and Schidt	W. A., 83, 7	40, 824
„	„	„	....	100	Hayduck	G. J. C., 1873	
„	„	„	....	96	„	B., 7, 1090	
„	„	„	....	96	Ostermeyer	„	
„	„	„	....	98-100	„	„	
„	„	„	....	95-96	Japp	....	37, 410
„	„	„	....	96	„	....	„
„	„	„	....	96	Japp and Wilcock	....	37, 664
„	„	„	....	97.5-98	„ „	....	37, 670
„	„	„	....	101	Carnelley	....	37, 711
„	„	„	....	100	Anschutz & Schultz	G. J. C., 1879	
Anthracene	$C_6H_4 \begin{array}{c} \diagup CH \\ | \\ \diagdown CH \end{array} C_6H_4$	„	....	213.3	Anderson	15, 44	iv., 350
„	„	„	a. 300	180	Dumas and Laurent	A. C. [2], 1, 187	„
„	„	„	....	210	Fritzsche	A., 109, 249	„
„	„	„	....	210-212	„	J. [1867], 600	vi., 177
„	„	„	abt. 360	213	Græbe & Liebermann	A. s., vii., 257	„
„	„	„	....	210-212	Grimm	B., 6, 506	26, 1235
„	„	„	339-359	212.5	Carnelley & Williams	33, 283	
„	„	„	....	213	Goldschmiedt and Schidt	W. A., 83, 7	40, 824
„	„	„	....	208	Henzold	J. p. C., 27, 518	44, 1137

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Anthracene		$C_{14}H_{10}$	....	208	Claus	B., 8, 530	28, 891
" ....	"	"	....	208	Kircher	B., 17, 1168	
" ....	"	"	....	213	Perkin & Hodgkinson	....	37, 726
" ....	"	"	....	212-213	" "	....	37, 727
Isoanthracene ....	"	"	....	133.5-134.5	Weber and Zincké	B., 7, 1156	28, 156
"	isomeric	"	....	247	Schmidt	B., 5, 931 ; 6, 494	28, 176 ; vii., 85
Paranthracene ....	"	"	....	244	"	B., 6, 494	28, 1234 ; vi., 177
Synanthrene (phosene) ....	....	"	....	189-195	....	A., 191, 298	
" "	....	"	....	193	....	A. C. [5], 7, 526 ; J. [1868], 404	
Tolane	$C_6H_5.C:C.C_6H_5$	"	275-300	59	Hanhart	B., 15, 900	
" ....	"	"	....	60	Limpricht and Schwanert	A., 145, 347	vi., 1099
Ellagene ....	....	"	252-295	88	Rembold	B., 8, 1494	29, 592
" ....	....	$(C_{14}H_{10})_n$	a. 360	s. f. 65-70	"	B., 8, 1496	"
From chloroform and naphthalene	....	"	....	189-190	Hönig and Berger	M. C., 3, 670	44, 68
(?) ....	....	"	....	145	Kekule and Franchimont	....	28, 172
(?) ....	....	$(C_{14}H_{11})_n$	....	abt. 100	Schützenberger	C. R., 75, 1767	vii., 1163
Anthracene dihydride	$C_{14}H_{10}.H_2$	$C_{14}H_{12}$	305	106	Gräbe & Liebermann	Z. F. C., 13, 257	vi., 177
" "	....	"	....	107-108	Liebermann	A., 212, 5	42, 855
" "	....	"	313	106-108	....	A. s., 7, 265 ; C. R., 79, 764	
" "	....	"	....	108	Liebermann & Topf	B., 9, 1202	31, 86
Stilbene	$Ph.CH:CHPh.$	"	abt. 292	100 +	Laurent	R. S., 16, 373	v., 432
" (?) ....	"	" (?)	....	abt. 116	Perkin & Hodgkinson	....	37, 721
" ....	"	"	....	115-118	Wurtz	A., 7th Supp., 54	
" ....	"	"	....	119.5	Limpricht	A., 139, 303	vi., 1107
" ....	"	"	....	120	Fittig	A., 139, 178	"
"	"	"	265	120	Williams	C. N., 15, 244	"
" ....	"	"	....	120	Drehner and Otto	G. J. C., 1870	vii., 169
" ....	"	"	....	120	Jena and Limpricht	"	
" ....	"	"	....	121-122	Forst and Zincké	G. J. C., 1876	
" ....	"	"	....	124	Michaelis & Lange	G. J. C., 1875	
" ....	"	"	....	124	Reimer	B., 14, 1805	
" ....	"	"	....	124	Paal	B., 15, 1819	
" ....	"	"	....	125	Howard		
"	"	"	300-302	....	Klinger	G. J. C., 1877	
"	"	"	306	....	Forst	G. J. C., 1875	
"	"	"	306-307	....	Gräbe	B., 7, 1629	28, 455
Diphenylethylene	$CH_2:CPh_2$	"	277	Liquid	Hepp	B., 7, 1409	28, 361
"	"	"	274-276	Liquid	Demole	B., 12, 2245	38, 158
(?) ....	....	"	abt. 260	Liquid	Jena and Limpricht	A., 155, 91	vii., 169
(?) ....	....	"	260	Liquid	Berthelot	B. S. [2], 9	
From diphenylmethane and methylal	$C_6H_5.CH_2.C_6H_5$ or $(Ph.CH_2.C_6H_5)_2CH_2$	" or $C_{27}H_{24}$	....	abt. 90	Baeyer	B., 6, 222	28, 885 ; vii., 533
(?) ....	....	$(C_{14}H_{12})_n$	....	190	Hepp	B., 7, 1409	28, 361
Dibenzyl	$Ph.CH_2.CH_2.Ph$	$C_{14}H_{14}$	284	51.5-52.5	Cannizaro & Rosse	J., 14, 548	v., 870
" ....	"	"	....	48-50	Limpricht and Schwanert	A., 145, 380	vi., 334, 1107
"	"	"	282	....	Limpricht	J., 19, 593	
" ....	"	"	....	50	Goldenberg	A., 174, 333	28, 365
" ....	"	"	....	52.5-53.5	Wurtz	A., 7th Supp., 54	
" (impure)....	"	"	....	51-52	Ekstrand	B., 9, 855	30, 514
" ....	"	"	....	52	Reimer	B., 14, 1805	
" ....	"	"	....	52	Breuer and Zincké	A., 198, 141	38, 118

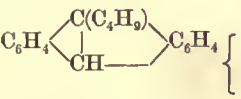
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dibenzyl	Ph.CH ₂ .CH ₂ .Ph	C ₁₄ H ₁₄	....	52	Hanhart	B., 15, 900	
" ....	"	"	....	52-53	Paal	B., 15, 1819	
"	"	"	272	....	Fittig	A., 139, 178	
"	"	"	276-277	52.5	Silva	C. R., 89, 606	38, 260
Diphenylethane	CH ₃ .CHPh ₂	"	268-271	Liquid	Goldschmiedt	B., 6, 1502	27, 370
"	"	"	268-270	....	Radziszewsky	B., 7, 142	27, 469
"	"	"	264-266	....	Thörner & Zincké	B., 11, 1990	36, 317
"	"	"	286	....	Haiss	B., 15, 1481	42, 1071
"	"	"	150 (16)	....	Angeblis and Anschutz	B., 17, 165	46, 753
Benzyltoluene	C ₆ H ₄ .Me.CH ₂ .Ph = 1.3	"	275 c. (747)	Liquid	Senff	A., 220, 225	46, 427
"	" "	"	268-269.5 (725)	l. -10	Ador and Rilliet	B., 12, 2300	
"	" = 1.4	"	277	l. -17	Zincké	B., 4, 298	24, 508
"	" "	"	279-280 c.	l. -17	"	A., 161, 93	vii., 183
"	" "	"	275-280	Liquid	v. Dorp	B., 5, 1071	vii., 82
"	" "	"	282	Liquid	"	B., 5, 1070	26, 500
"	" "	"	285-286 c.	l. f. m.	Behr and v. Dorp	B., 7, 19	27, 471
"	" = (?)	"	283-286	....	Barbier	B., 7, 1544	
" (?) ....	....	"	170	....	Bertholet	....	vii., 82
Ditolyl	Me.C ₆ H ₄ .C ₆ H ₄ .Me = (1.4) ₂	"	283-288	121	Zincké	B., 4, 397	24, 510; vii., 1179
" ....	" "	"	....	117-119	Longuinine	B., 4, 515	24, 684
" ....	" "	"	....	121	Doebner	B., 9, 272	29, 914
"	" "	"	283-288	119-120	Carnelley	....	32, 654
" ....	" = (?)	"	....	91	Schultz	B., 17, 472	46, 903
"	" = 1.2; 1.4	"	272-280	Liquid	Carnelley	....	37, 707
"	" "	"	270-290	Liquid	"	....	32, 654
"	" "	"	277-282	Liquid	Longuinine	B., 4, 515	24, 685
"	" = (?)	"	283-288	Liquid	Zincké	B., 4, 399	24, 510; vii., 1179
"	" = (?)	"	280-285	....	Barbier	C. R., 79, 121	27, 1091
"	" = 1.3; 1. (?)	"	280-281	....	Schultz	B., 17, 468	
"	" = (?)	"	273-278	Liquid	Zincké	B., 4, 400	24, 510; vii., 1179
"	" = (1.2) ₂	"	272-277 u. c.	Liquid	Longuinine	B., 4, 515	24, 685; vii., 1164
"	" "	"	272	Liquid	Fittig	A., 139, 178	24, 510; vii., 1179
"	" = (?)	"	270-280	....	Græbe	B., 7, 48	27, 471
"	" = 1.3; 1. (?)	"	270	....	Schultz	B., 17, 471	46, 903
Plenylxylene	Ph.C ₆ H ₃ Me ₂	"	270-280	....	Barbier	A. C. [5], 7, 472	31, 76
"	"	"	283-286	....	"	C. R., 69, 660	28, 62
Tetrahydrophenanthrene ....	....	"	300-310	Liquid	Græbe	A., 167, 131	26, 896; vii., 85
" ....	....	"	abt. 310	cryst. b. 0	"	B., 8, 1056	29, 70
From bixin ....	....	"	270-280	Liquid	Etti	B., 11, 868	34, 739
(?) ....	....	"	283-286 c.	....	Barbier	C. R., 79, 660	28, 62
From dioxyretistene ....	....	"	....	56-57	Ekstrand	A., 185, 75	32, 499
Anthracene hexydride ....	....	C ₁₄ H ₁₆	290	63	Græbe and Liebermann	Z. F. C., 13, 257	vi., 176
" ....	....	"	....	63	Liebermann	A., 212, 25	42, 857
Phenanthrene octohydride ....	....	C ₁₄ H ₁₈	b. 300	Liquid	Græbe	A., 167, 131	26, 896; vii., 85
Tetrethyl benzene	C ₆ H ₂ .Et ₄ = 1.2.3.5	C ₁₄ H ₂₂	251	l. -20	Galle	B., 16, 1745	44, 1092
Dibutyl benzene	C ₆ H ₄ .(C ₄ H ₉) ₂	"	230-240	....	Goldschmiedt	B., 15, 1067	
From lactucene ....	....	"	247-252	....	Franchimont and Wignann	B., 12, 11	36, 469
(?) ....	....	"	320-330	....	Schiff	Z. C., 6, 75	vii., 869
(Methylpropylallylene) ₂	(C ₇ H ₁₂) ₂	C ₁₄ H ₂₄	245-247	....	Morris	....	41, 174
Diheptene	C ₇ H ₁₂ .C ₇ H ₁₂	"	235-240	....	Rénard	C. R., 91, 419	38, 894
"	"	"	235-240	....	Tilden	45, 419	
Isobutyl camphine	C ₁₀ H ₁₅ .C ₄ H ₉ ^β	"	228-229 c. (750.4)	Liquid	Spitzer	B., 11, 1818	36, 168

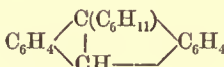
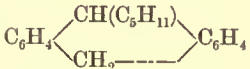
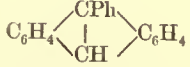
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
From camphic acid ....	....	$C_{14}H_{24}$	215	....	Montgolfier	A. C. [5], 14, 5	34, 897
„ animal oil ....	....	„	240	....	....	A., 139, 245	....
(?) ....	....	$C_{14}H_{26}$	245-260	....	Schiff	Z. C., 6, 75	vii., 869
Heat on petroleum	Caucasian	$C_{14}H_{28}$	230-232	....	Schutzenberger and Ionine	C. R., 91, 823	40, 706
Diheptene ....	....	„	245-247	Liquid	Tilden	B., 13, 1604	41, 174
Tetradecylene ....	....	„	127 (15)	- 12	Krafft	B., 16, 3021	46, 572
Tetradecane	$Me.(CH_2)_{12}.Me$	$C_{14}H_{30}$	252.5 (760); 178.5 (100); 158 (50); 145.5 (30); 129.5 (15); 122.5 (11)	4.5	„	B., 15, 1700	42, 1272
....	....	„	236-240	....	Pelouze & Cahours	J., 16, 524	iii., 181
„	From cast iron	„	234-238	....	S. Cloez	C. R., 85, 1003	34, 482
Myristyl hydride ....	....	„	236-240	....	....	....	iii., 1073
(1) ....	....	„	240	....	....	B. S., 8, 239	....
(2) ....	....	„	250	....	Barbier	C. R., 79, 121	27, 1092
Fluoranthene (idryl)	$C_6H_4.CH.CH$ $\begin{array}{c} | \quad \diagup \quad || \\ C_6H_3-CH \end{array}$	$C_{15}H_{10}$	250-251 (60); 217 (30)	....	Fittig & Liepmann	A., 200, 1	38, 400
„ „ ....	„	„	....	110	Goldschmiedt	B., 10, 2028	34, 155
„ „ ....	„	„	....	109	Fittig and Gebhard	B., 10, 2142	34, 431
„ „ ....	„	„	....	109	„	A., 193, 142	36, 166
From fluoranthene ....	....	„	309-311	Liquid	Goldschmiedt	W. A., 81, 415	40, 284
Succisterene ....	....	„	a. 300 d.	160	....	A. C. [3], 9, 96	....
Fluoranthene dihydride ....	....	$C_{15}H_{12}$	....	76	Goldschmiedt	M., 1, 225	40, 263
Methylantracene ....	....	....	....	178	Sadler & McCarter	A. C. J., 1, 30	40, 1129
„	$C_6H_4:C_2H_2:C_6H_3Me$	„	a. 360	190	Japp and Schultz	B., 10, 1050	32, 624
„ ....	„	„	....	190	Ciamician	B., 11, 273	34, 439
„ ....	„	„	....	199-200	Liebermann	A., 183, 163	31, 611
„ ....	„	„	....	200	Fischer	B., 7, 1196	....
„ ....	„	„	....	198-201	Weiler	B., 7, 1186	28, 152
„ ....	„	„	....	203	Bornstein	B., 15, 1822	44, 71
„ ....	„	„	....	205	Liebermann	B., 8, 970	29, 251
„ ....	„	„	....	208-210	Wachendorff and Zincké	B., 10, 1485	34, 232
Methanthrene ....	....	„	a. 360	117	Oudemans	B., 6, 1127	27, 73
Methylantracene dihydride ....	....	$C_{15}H_{14}$	....	100	Roemer and Link	B., 16, 703	44, 1138
Phenyltolylethylene....	$Ph.CH:CH.C_6H_4Me = 1.4$	....	....	117	Mann	B., 14, 1646	40, 1035
Diphenyldimethylmethane	CPh_2Me_2 (?)	$C_{15}H_{16}$	281-282	....	....	B. S., 34, 674; 35, 289	....
Dibenzylmethane	$CH_2(CH_2Ph)_2$	„	a. 300	Liquid	Plascuda	B., 7, 986	28, 74
„	„	„	a. 300	l. - 20	Merz and Weith	B., 10, 760	....
„	„	„	290-300	l. f. m.	Græbe	B., 7, 1627	28, 457
„	„	„	290-295	....	Claisen & Claparède	B., 14, 2466	42, 512
Diphenylpropane	$C_3H_6Ph_2$	„	277-279	Liquid	Silva	C. R., 89, 606	38, 259
Phenyltolylethane	$Ph(CH_2)_2.C_6H_4Me = 1.4$	„	278-280	....	Bandrowsky	B., 7, 1016	28, 62
„	„	„	286	27	Mann	B., 14, 1646	40, 1034
Ditolylmethane	$CH_2(C_6H_4Me)_2$	„	285.5-286.5	22-23	Ador and Rilliet	B., 12, 2302	....
„	„	„	280-285	Liquid	Schwarz	B., 14, 1530	....
„	„	„	289-291 u. c.	l. - 15	Weiler	B., 7, 1182	28, 151
Benzylethyl benzene	$Ph.CH_2.C_6H_4.Et = 1.4$	„	294-295 c. (754 r.)	Liquid	Walker	B., 5, 686	25, 1004; vii., 184
Benzylxylene	$Ph.CH_2.C_6H_3.Me_2$ $Me.Me = 1.3$	„	283	Mixture (?)	Blatzbecker	B., 9, 1761	31, 469
„	$Ph.CH_2.C_6H_3.Me_2$ $Me.Me = 1.3$	„	290	....	Söllicher	B., 15, 1682	42, 1292
„	$Ph.CH_2.C_6H_3.Me_2$ $Me.Me = 1.3$	„	295-296 c.	Liquid	Zincké	B., 5, 799	26, 272
„	$Ph.CH_2.C_6H_3.Me_2$ $Me.Me = 1.4$	„	293.5-294.5	Liquid	„	„	„

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Fluoranthene octohydride	$C_{15}H_{18}$	309-311	....	....	M., 1, 226	
α -Amylnaphthalene	$C_{10}H_7(CH_2CH_2CH.Me_2)$	"	303	....	Leone	G. I., 12, 209	42, 1210
β - "	"	"	304-306	....	Paternò	G. I., 12, 337	42, 1210 ; 44, 212
(?)	"	245	....	....	B. S., 37, 303	
From clove oil	$C_{15}H_{22}$ (?)	250-260	....	Beckett and Wright	....	29, 7
" sandal wood oil	$C_{15}H_{22}$	248	....	Chapoteant	B. S. [2], 37, 303	44, 76
" cedar oil	"	248	....	"	"	"
Sesquiterebene	"	250	....	Berthelot	J., 15, 457	v., 924
Metatemplene	$C_{15}H_{24}$	280	....	Fluckiger	J., 8, 646	
Petrolene	"	280	....	Boussingault	(?)	(?)
Trivalerylene	"	265-275	....	Reboul	J., 20, 585	vi., 1124
"	"	240-250	....	....	B. S., 33, 24	
Patchoulin	"	252-255 c. (743)	....	Montgolfier	C. R., 84, 88	31, 478
Cedrene	"	237	....	....	A., 39, 249 ; 48, 37	
"	"	249-260	....	Gladstone	25, 1	26, 563
"	"	250-260	....	"	....	26, 972
"	"	260	....	Muir	....	37, 680
Heveene	"	255-265	....	Bouchardat	B. S. [2], 24, 108	29, 86
Conimene	"	264	....	Stenhouse & Groves	A., 180, 253	29, 175
Para-copaiva oil	"	252 p. d.	....	Posselt	A., 69, 69	J., 2, 455
From copaiva....	"	250	....	Soubeiran & Capitaine		
" maracaibo balsam	"	250-260	....	Strauss	J., 21, 795	
" gurgun balsam	"	255	....	Werner	J., 15, 461	
" drybalanops camphora	"	255-270	....	Lallemant	J., 12, 503	
" cascarilla oil	"	254	....	Gladstone	17, 1	
" patchouli oil	"	254	....	"	"
" " "	"	257	....	"	"
" " "	"	260	....	"	"
" cubebs oil	"	220-250	....	....	J. [1870], 190	
" " "	"	250-260	....	....	....	ii., 172
" " "	"	262-263	....	....	B., 8, 1357	
" " "	"	264-265	....	Oglialora	G. I., 5, 469	30, 643
" " "	"	250-260	....	Schmidt	B., 10, 189	32, 345
" " "	"	260	....	Gladstone	17, 1	
" cedar oil	"	252	....	"	....	25, 6
" vitivert oil	"	255	....	"	....	"
" clove oil	"	247-250 u. c. 253.9 c.	....	Church	J. [1876], 398	28, 114 ; 29, 6
" " "	"	142-143	....	Ettling	Watts' Dict.	
" " "	"	249	....	Gladstone	17, 1	
" " "	"	251	....	Williams	J., 11, 442	
" sandal-wood oil	"	260	....	Chapoteant	B. S. [2], 37, 303	44, 76
" rosewood oil	"	249	....	Gladstone	17, 1	
" calamus oil	"	260	....	"	"
" " "	"	255-258	....	Kurbatow	A., 173, 1	
" laurus nobilis	"	250	....	Blas	J., 18, 569	
" sage oil....	"	abt. 260	....	Muir	....	37, 679
" hemp oil	"	256-258	Liquid	Valente	G. I., 10, 479	40, 284
" myrtus pimenta	"	255	....	Esler	J., 17, 534	iv., 647
" salviol	"	264-271	....	Liguira and Muir	....	33, 297
(?)	"	249-260	....	Gladstone	....	25, 6
" santonic acid	$C_{15}H_{26}$	110-112 (5) 235-245 ; (o. p.)	....	Cannizzaro & Amato	B., 7, 1104	28, 163
Quindecone	"	220	....	....	A., 147, 255	
(?)	"	248-252	....	Gal	C. R., 68, 408	vi., 902
Pentadecene	$C_{15}H_{28}$	230-240	Liquid	Bauer	A., 137, 249	vi., 903

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watt's Dict. & J. Ch. Soc.
Benylene ....	....	$C_{15}H_{28}$	223-228	....	Bauer and Verson	A., 147, 252; J., 1, 337	
Triamylene ....	....	$C_{15}H_{30}$	245-248	....	Bauer	J., 14, 660	vi., 122
Pentadecane	$Me.(CH_2)_{13}.Me$	$C_{15}H_{32}$	270.5 (760); 194 (100); 173 (50); 160 (30); 144 (15); 137 (11)	10	Krafft	B., 15, 1701	42, 1272
" ....	....	"	255-260	....	Pelouze & Cahours	J. [1863], 530	iii., 181
" ....	....	"	258-262	Liquid	" "	J., 16, 524	vi., 903
"	From cast iron	"	258	....	Cloez	C. R., 85, 1003	34, 482
Diacetenylphenyl	$Ph.C:C.C:C.C.Ph$	$C_{16}H_{10}$	....	97	Glaser	A., 154, 159	
Pyrene (phenylenenaphthalene)	$C_{10}H_6:C_6H_4$	"	s. a. 360	142	Græbe	Z. C. [2], 7, 22; A., 158, 285	24, 118, 690; vii., 1027
" " ....	....	"	....	148-149	Fittig and Gebhard	B., 10, 2143	34, 432
" " ....	....	"	....	149-150	Goldschmiedt and Schidt	W. A., 83, 7	40, 824
" " ....	....	"	....	148-149	Hintze	G. J. C., 1877	
" " ....	....	"	....	147-149	Goldschmiedt and Wegschneider	M. C., 4, 237	44, 1003
" " ....	....	"	....	149	Smith and Davies	....	37, 413
" " ....	....	"	260 (60)	....	Fittig & Liepmann	A., 200, 1	38, 400
" " ....	....	"	....	170-180	Laurent	A. C. [9], 66, 136	iv., 754
" (7) ....	....	$C_{16}H_{10}$ or $C_{18}H_{12}$	....	181-186	Ador and Crafts	C. R., 88, 1355	38, 940
Phenyl naphthalene	$C_{10}H_7.Ph$	$C_{16}H_{12}$	....	95-96 c.	Smith	B., 12, 2051	38, 125
" " ....	"	"	....	101-102	"	B., 12, 1396	38, 262
" " ....	"	"	....	101-102 c.	Smith & Takamatsu	....	39, 549
" "	"	"	a. 340	....	Græbe	B., 6, 66	
" " ....	"	"	....	104-105	"	B., 7, 782	27, 989
Pseudophenanthrene	....	"	....	115	....	A., 191, 295	
From coccinin ....	....	"	....	186-187	Fürth	B., 16, 2170	46, 84
" carmin ....	....	"	....	186	"	B., 16, 2171	"
" carminic acid ....	....	"	....	183-188	Liebermann & v. Dorp	A., 163, 112	25, 706; vii., 368
Diphenylbutine	$PhC.CH$ $H.C.CPh$	"	345-346	101-101.5	Breuer and Zincké	B., 11, 1403, 1995; B., 14, 1896; A., 216, 301	34, 890
Atronol ....	....	$C_{16}H_{14}$	325-326 c.	l. — 18	Fittig	A., 206, 52	40, 426
Dimethylantracene	$MeC_6H_3:C_2H_2:C_6H_3Me$	"	....	abt. 200	Van Dorp	B., 5, 676; A., 169, 207	vii., 84; 27, 63; 25, 1006
"	"	"	210-220	....	Senff	A., 220, 225	46, 427
"	$C_2H_2:C_{12}H_6Me_2$	"	....	224-225	Wachendorff and Zincké	B., 10, 1482	34, 232
" (7) ....	....	"	....	280	Sadtler & McCarter	A. C. J., 1, 30	40, 1129
Ethylantracene	$C_6H_4:C_2HEt:C_6H_4$	"	....	60-61	Liebermann & Tobias	B., 14, 803	40, 737
" ....	"	"	....	60-61	Liebermann	A., 212, 109	42, 863
Ditolylacetylene	$Me.C_6H_4.C:C.C_6H_4.Me$	"	....	136	Goldschmiedt and Hepp	B., 6, 1505	27, 371
From isotropic acid ....	....	"	320	....	Fittig	B., 12, 1739	38, 120
" acetophenone ....	....	"	....	49-49.5	Thörner & Zincké	B., 13, 645	
Pyrene hexhydride ....	....	$C_{16}H_{16}$	....	127	Græbe	A., 158, 296	24, 691; vii., 1028
Ethylenedibenzyl	$Ph(CH_2)_2.C_6H_4.CH:CH_2$	"	287-295	....	Berthsen & Bender	B., 15, 1984	
Dimethylstilbene (1.4) ₂	$Me.C_6H_4.CH:CH.C_6H_4Me$	"	a. 300	176-177	Goldschmiedt and Hepp	B., 6, 1504	27, 371
Ethylstilbene	$PhCH:CH.C_6H_4Et = 1.4$	"	....	89-90	Sölscher	B., 15, 1681	42, 1292
Ditolylethylene	$CH_2:C(C_6H_4Me)_2$	"	304-305	Liquid	Hepp	B., 7, 1413	28, 361
Distyrene ....	....	"	310-312	....	Fittig	B., 12, 1743	38, 121
" ....	....	"	s. a. 300 p.d.	Liquid	Krakau	B., 11, 1260	
" ....	....	"	a. 300 p.d.	....	Erlenmeyer	A., 135, 122	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Distyrene ....	....	$C_{16}H_{16}$	310-312 u.c.	Liquid	Erdmann	A., 216, 187	44, 475
" (?)	$Ph.CH(CH_2)_2.CHPh$ (?)	" (?)	....	117	Engler and Leist	B., 6, 256	
" ....	"	"	....	119	Radziszewsky	B., 6, 494	
Ethylanthradihydride	$C_6H_4:C_2H_3Et:C_6H_4$	"	320 c. (o.d.) 291-292 (570)	....	Liebermann and Laudshoff	B., 14, 457	40, 609
"	"	"	320-323	Liquid	Liebermann	A., 212, 78	42, 862
Dimethylantracenedihydride	$C_6H_4.CHMe.C_6H_4.CH.Me$	"	....	178-179	Angeblis and Anschutz	B., 17, 165	46, 753
Ditolylethane	$(CH_2)_2:(C_6H_4.Me)_2$	$C_{16}H_{18}$	296	Liquid	Vollrath	Z. C. [2], 2, 489	v., 869
"	" = 1.4; 1.3	"	297-300	Liquid	Friedel & Balsohn	B. S. [2], 35, 52	40, 260
"	$Me.CH(C_6H_4Me)_2$	"	295-298	Liquid	Fischer	B., 7, 1193	28, 155
"	" = (1.4) ₂	"	293-295(723)	....	Haiss	B., 15, 1474	42, 1071
Dibenzylethane (?)	$MeCH(CH_2Ph)_2$	"	abt. 300	l. f. m.	Græbe	B., 7, 1627	28, 457
Diphenylethylmethylme- thane	CPh_2EtMe	"	....	127.5-128.5	Thörner and Zincké	B., 11, 1990	36, 318
Dimethyldiphenylethane	$CHPhMe.CHPhMe$	"	....	123.5	Engler and Bethge	B., 7, 1127	28, 65
" ....	"	"	....	124	Radziszewsky	B., 7, 142	
Ethylidibenzyl	$Ph(CH_2)_2.C_6H_4Et=1.4$	"	293-295	....	Sölscher	B., 15, 1681	42, 1292
Benzylmesitylene	$C_6H_2.Me_3.CH_2Ph=1.3.5.6$	"	300-303	31	Louise	C. R., 95, 1163	44, 323
Dixyl	$(C_6H_3Me_2)_2=(1.2.5)_2$	"	....	125	Jacobsen	B., 14, 2112	42, 188
"	" = (1.1.3) ₂	"	293-297	....	Oliveri	G. I. [1882], 158	42, 853; 45, 150
"	" = (1.1.3) ₂	"	290-295	....	Fittig, Ahrens, and Mattheides	B. S. [1868], 464	42, 853
Cedrene ....	....	$C_{16}H_{24}$	248	....	Walter	A. C. [3], 1, 498	i., 818
Diisomyl benzene	$C_8H_{11}.C_6H_{11}=1.3(?)$	$C_{16}H_{26}$	260-270	1.-20	Austin	B. S. [2], 32, 12	38, 107
Diocene ....	....	$C_{16}H_{28}$	260	....	Rénard	A. C. [6], 1, 223	46, 844
From animal oil ....	....	"	280	....	....	A., 139, 246	
Cetine ....	....	$C_{16}H_{30}$	280-285	-25	Chydenius	A., 143, 268	vi., 421
Metaoctylene ....	....	$C_{16}H_{32} (?)$	250 d.	....	Bouis	....	iv., 172
Cetene ....	....	"	275	....	Dumas and Peligot	A. C. [2], 624	i., 838
" ....	....	"	274	....	Lasarenko	B., 7, 125	
" ....	....	"	275	....	Chydenius	A., 143, 267	vi., 421, 710
" ....	....	"	154-155 (15)	4	Krafft	B., 16, 3018	46, 572
"	From azelaic acid	"	283-285	41-42	....	A., 136, 265	
Polyethylene ....	....	"	280	....	Berthelot	B. S. [2], 9	vi., 741
Hexadecane	$Me.(CH_2)_{14}.Me$	$C_{16}H_{34}$	287.5 c. (760); 208.5 (100); 187.5 (50); 174 (30); 157.5 (15); 151 (11)	18	Krafft	B., 15, 1702; B., 16, 3022	42, 1272
"	"	"	abt. 280	....	Pelouze & Cahours	C. R., 57, 62	vi., 421
"	"	"	278	....	Schorlemmer	P. R. S., 16, 367	24, 896; vii., 891
"	From cast Fe	"	276-280	....	Cloez	C. R., 85, 1003	34, 482
"	$C_8H_{17}.C_8H_{17}$	"	278	21	Zincké	A., 152, 16	vi., 877
"	"	"	277-279	14	Eichler	B., 12, 1882	38, 229
" ....	"	"	....	19-20	Lachowicz	A., 220, 168	46, 166
"	Secondary	"	263	Liquid	"	"	"
" ....	....	"	270-280	....	Berthelot	B. S. [2], 9	vi., 741
Benzyl-naphthalene	$C_{10}H_7.CH_2Ph$	$C_{17}H_{14}$	320-350	64	Proté	C. R., 76, 639	26, 891
"	"	"	330-340	58.6	Miguel	B. S. [2], 25, 2	30, 407
α -Benzyl-naphthalene	$C_{10}H_7.CH_2Ph$	"	345	59	Vincent and Roux	B. S. [2], 40, 163	46, 609
β - "	"	"	315	55	" "	"	"
Isopropyl stilbene	$Pr^2 C_6H_4.CH:CHPh$	$C_{17}H_{18}$	....	83-84	Michael	A. C. J., 1, 312	40, 1150
Benzylcymene	$C_6H_3.Me.Pr.CH_2Ph$	$C_{17}H_{20}$	296-297	....	....	J. [1878], 402	
"	"	"	308	....	....	"
Benzyliduryl	$C_6H.Me_4.CH_2Ph$	"	310	60.5	Friedel, Crafts, and Ador	C. R., 88, 880	36, 713

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Heptadecane	Me.(CH ₂) ₁₅ .Me	C ₁₇ H ₃₆	303 (760); 223 (100); 201.5 (50); 187.5 (30); 170. (15); 163.5 (11)	22.5	Krafft	B., 15, 1687	42, 1272
Chrysene ....	....	C ₁₈ H ₁₂	....	275	Schorlemmer	Ch. Carb. Comp.	
" ....	....	"	a. 360	248-250	Liebermann	A., 158, 299	24, 692; vii., 337
" ....	....	"	....	248	Prunier	A. C. [5], 17, 5	36, 1027
" ....	....	"	....	247-248	Adler	B., 12, 1891	
" ....	....	"	....	248	Goldschmidt and Schidt	W. A., 83 [2], 7	40, 824
"	C ₁₀ H ₆ .CH:CH.C ₆ H ₄	"	....	245	Gräbe & Bungener	B., 12, 1079	36, 807
" ....	....	"	....	230-235	Laurent	A. C. [2], 66, 136	i., 958
Isochrysene (triphenylene)	(C ₆ H ₄) ₃	"	a. 360	200	Berthelot	B. S. [2], 22, 437	28, 760
" (1) "	....	"	....	196	Schultz	"	"
" (2) "	....	"	a. 360	122	Burg	B., 9, 1208	31, 96
Diphenyl benzene	C ₆ H ₄ .Ph ₂ =1.4	C ₁₈ H ₁₂ (C ₁₆ H ₁₀)	....	181-186	Ador and Crafts	B. S., 34, 532	36, 940
" "	" "	C ₁₈ H ₁₄	a. 400	205 c.	Riese	A., 164, 170	26, 63
" "	" "	"	b. 440	201 u.c. =205 c.	"	Z. C. [2], 6, 192, 735	vii., 139, 945
" " ....	" "	"	....	205	Abebjanz	B., 9, 10	
" "	" "	"	a. 360	205	Schultz	A., 174, 230	28, 150, 760
" "	" "	"	a. 360	205	"	B. S. [2], 22, 437; B., 6, 415	
" " ....	" "	"	....	206	BarthandSchreder	B., 11, 1338	36, 66
" " ....	" "	"	....	205	Meyer and Rosicki	B., 11, 2172	36, 466
" "	" "	"	404-427	205-207 u.c. 212-213 c.	Carnelley	....	37, 705
" " ....	" "	"	....	206-208 u.c.	"	....	"
" "	" "	"	383 (760) 250 (45)	205	Schmidt and Schultz	A., 203, 124; B., 11, 1755	40, 435; 36, 163
Isodiphenyl benzene....	C ₆ H ₄ (Ph) ₂ =1.2 (?)	"	360	abt. 85	Schultz	B., 6, 416	26, 888
" "	"	"	abt. 360	85	"	A., 174, 233	28, 151, 760
" "	"	"	363	85	Schmidt and Schultz	A., 203, 129	40, 435
Retene ....	....	C ₁₈ H ₁₈	b. p. of Hg.	98-99	Fehling	A., 106, 388	v., 97; vi., 993
" ....	....	"	360	....	....	J. [1858], 440	vi., 32
" ....	....	"	390	95	Berthelot	J. [1867], 39	vi., 993
" ....	....	"	....	98-99	Wahlforss	Z. C. [2], 5, 73	"
" ....	....	"	b. p. of Hg.	95	Fritzsche	J. p. C., 75, 281	"
" ....	....	"	....	98.5	Ekstrand	B. S. [2], 24, 55; B., 9, 855; A., 185, 75	29, 86; 32, 497; 30, 514
Isobutylanthracene	C ₆ H ₄	"	....	57	Liebermann and Tobias	B., 14, 802	40, 737
Tetramethyl stilbene	Me ₂ .C ₆ H ₃ CH:CH.C ₆ H ₃ Me ₂ =4.2.1; 1.2.4	C ₁₈ H ₂₀	....	105-106	Liebermann Hepp	A., 212, 107 B., 7, 1416	42, 863 28, 361
" "	(Me ₂ =1.3) ₂	"	335	Liquid	"	"	"
" "	=5.2.1; 1.2.5	"	....	157	"	B., 7, 1417	"
Diethyl stilbene	(1.4) ₂ Et.C ₆ H ₄ .CH:CH.C ₆ H ₄ Et	"	....	134.5	"	B., 7, 1414	28, 361
Isobutylanthracene dihydride	C ₆ H ₄ .CH(C ₄ H ₉).C ₆ H ₄ .CH ₂	"	....	Liquid	Liebermann and Walder	B., 14, 462	40, 609
Hexethyl benzene	C ₆ Et ₆	C ₁₈ H ₃₀	286	123	Albright, Morgan, and Woolworth	C. R., 86, 887	34, 664
" "	"	"	292 u.c.; 305 c.	126	Galle	B., 16, 1747	44, 1092
Camphin ....	....	C ₁₈ H ₃₂	167-170	....	Claus	J. F. P., 25, 269	
Hexapropylene ..	....	C ₁₈ H ₃₆	330-340	....	Prunier	C. R., 76, 98; A., 145, 72	vii., 1016; 26, 487
Octodecene ....	....	"	179 (15)	18	Krafft	B. 16, 3024	46, 572

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Octodecane	$\text{Me}(\text{CH}_2)_{16}\text{Me}$	$\text{C}_{18}\text{H}_{38}$	317 (760); 236 (100); 214.5 (50); 200 (30); 181.5 (15); 174.5 (11)	28	Krafft	B., 15, 1703	42, 1272
Diphenylenephenyl methane	$\text{C}_{12}\text{H}_8:\text{CHPh}=1.2; 1.?$	$\text{C}_{19}\text{H}_{14}$	a. 360	138	Hemilian	B., 7, 1208	34, 573
" "	" "	"	....	145-146	Fischer	B., 11, 612	"
" "	" "	"	....	144	Schwarz	B., 14, 1522	40, 913
" "	" "	"	....	145.5	Hemilian	B., 11, 202	34, 431
" "	" "	"	....	145.5	"	B., 11, 838	34, 738
" "	(?) = (?)	"	....	145.5-146	Miller	B., 12, 1489	36, 255
" "	(?) $\text{C}_{12}\text{H}_8:\text{CHPh}=?$	"	"	145	Kekulé and Franchimont	B., 5, 910	"
" "	" "	"	....	144-146	Behr	B., 5, 970	"
Benzylidiphenyl	$\text{C}_6\text{H}_4\text{Ph}(\text{CH}_2\text{Ph})=1.2$	$\text{C}_{19}\text{H}_{16}$	283-287 (650)	54	Goldschmidt	M. C., 2, 410	42, 202
" "	" = 1.4	"	285-286 (650)	85	"	M. C., 2, 435	"
Triphenyl methane	$\text{CH}.\text{Ph}_3$	"	abt. 355	92.5	Kekulé and Franchimont	B., 5, 906	vii., 948; 26, 171
" "	"	"	abt. 360	92	Hemilian	B., 7, 1204	"
" "	"	"	358-359 (754)	....	Crafts	A. C., 14, 409	42, 62
" "	"	"	....	92.5	Schwarz	B., 14, 1526, 1942	"
" "	"	"	a. 300	....	Fischer	A., 194, 251	36, 384
" "	"	"	....	92.5	Baeyer	A., 202, 36	38, 651
" "	"	"	330	92.5-93	Schwarz	B., 14, 1519	40, 913
" "	"	"	....	96	Doebner	B., 12, 1468	"
From tobacco ....	....	$\text{C}_{19}\text{H}_{18}$	abt. 300	94-95	Vohl & Eulenberg	A. P. [2], 147, 130	24, 1076
Reduction of $\text{C}_{19}\text{H}_{14}\text{O}$	....	"	....	92	Liebermann and Landshoff	B., 14, 462	40, 609
Iso-amylnanthracene		$\text{C}_{19}\text{H}_{20}$	....	59 59 57	Liebermann Liebermann and Tobias Liebermann and Tobias	A., 212, 104 B., 14, 796 B., 14, 802	42, 862 40, 736
" dihydride		$\text{C}_{19}\text{H}_{22}$	350 p. d. (o.d.); 291-292 (570)	.... ....	Liebermann and Landshoff Liebermann and Landshoff	B., 14, 457 "	40, 609 "
Dimesityl methane	$\text{CH}_2:(\text{C}_6\text{H}_2\text{Me}_2)_2=(1.2.4.6)_2$	$\text{C}_{19}\text{H}_{24}$	....	Liquid 130	Liebermann Baeyer	A., 212, 79 B., 5, 1098	42, 862 26, 501; vii., 534
Helenene ....	....	$\text{C}_{19}\text{H}_{26}$	....	285-295	....	....	iii., 138
Nonodecane	$\text{Me}(\text{CH}_2)_{17}\text{Me}$	$\text{C}_{19}\text{H}_{40}$	330 c. (760); 248 (100); 226.5 (50); 212 (30); 193 (15); 185.5 (11)	32	Krafft	B., 15, 1704	42, 1272
Phenylanthracene		$\text{C}_{20}\text{H}_{14}$	....	152-153	Schellinger	A., 202, 61	38, 652
Dinaphthyl (α-α-)	$\text{C}_{10}\text{H}_7:\text{C}_{10}\text{H}_7$	"	s. b. 440	154-155	Smith	35, 225	vii., 844
" "	"	"	a. b. p. of Hg.	154	Lossen	A., 144, 78	24, 1186; vi., 855
" "	"	"	....	154	Walder	B., 15, 2170	"
" "	(?)	(?)	....	154	Gumeschi	G. I., 7, 24	31, 712
" "	"	"	a. 300	133	Otto	A., 147, 170	32, 562
" "	"	"	....	147	Smith	B., 10, 1272, 1603	"
Isodinaphthyl (-β-β-)....	"	"	m. a. 440	187	"	35, 226	"
" "	"	"	....	186-187	"	B., 9, 467	30, 33, 393
" "	"	"	a. 300	187	"	B., 10, 1272, 1603	32, 562
" "	"	"	....	189	Gladstone & Tribe	....	41, 17

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isodinaphthyl (-β-β)....	$C_{10}H_7 : C_{10}H_7$	$C_{20}H_{14}$	a. 360	204	Smith	....	24, 1186 ; vii., 844
Dinaphthyl (-α-β)	"	"	s. b. (-α-α)	76	"	35, 226, 227	
" "	"	"	a. 300	75	"	32, 562	
" "	"	$(C_{20}H_{14})_n$	....	250-255	"	32, 560	
Diphenylenetolyl methane	$C_6H_4.C_6H_4.CH.C_6H_4Me$	$C_{20}H_{16}$	....	128	Hemilian	B., 11, 203	34, 431
Phenylanthracene dihydride	....	"	....	120-120.5	Schellinger	A., 202, 63	38, 652
Benzyl fluorene	$PhCH_2.C_6H_3.CH_2.C_6H_4$	"	....	202 or 102	Goldschmidt	M. C., 2, 443	42, 202
α-Dibenzyl benzene	$C_6H_4(CH_2Ph)_2=(1.4)_2$	$C_{20}H_{18}$	....	86	Zincké	B., 6, 120 ; 9, 31	26, 631
α- " " ....	" "	"	....	83-84	Baeyer	B., 6, 221	
β- " "	" $=(1.2)_2$	"	....	78	Zincké	B., 6, 121 ; 9, 31	26, 631
Tolyldiphenyl methane	$CHPh_2.C_6H_4Me=1.4$	"	a. 360	71	Fischer	A., 194, 263	36, 385
" "	" $=1.3$	"	....	62	Hemilian & Fischer	B., 16, 2360	46, 322
" "	" $=1.2$	"	a. 300	59-59.5	Fischer	A., 194, 282	36, 386
" " ....	" $= ?$	"	....	Liquid	Hemilian	B., 7, 1208	28, 153
Triphenyl ethane	$CH_2Ph.CHPh_2$	"	a. 360	Liquid	Waas	B., 15, 1128	42, 1209
" "	$CPh_3.CH_3$	"	....	205	Combes	C. R., 98, 678	46, 837
From rosaniline ....	....	"	m. a. 360	58	Fischer	B., 9, 900	30, 530
Dicumyl (?)....	....	$C_{20}H_{26}$	a. 360	....	....	A., 121, 251	
Dicymene	$(Me.Pr.C_6H_3)_2$	"	335	Solid s. b. 0	Montgolfier	A. C. P. [5], 14, 5	34, 899
(?)	....	$C_{20}H_{30}$	254	....	Mössmer	A. Ph., 99, 257	ii., 759
From Resina Guaiaci Peruv. aromat. v. odor.	....	"	250-270	....	Kopp	A. P. [3], 9, 103	
Paracajeputene ....	....	$C_{20}H_{32}$	310-316	....	Schild	T. E., 22 [6], 360	i., 711
Colophene ....	....	"	310-315	Liquid	Deville	A. C.	i., 1086
" ....	....	"	300	....	Etard and Moissau	B. S. [2], 34, 69	40, 18
" ....	....	"	315	....	Gladstone	17, 1	
From colophony ....	....	"	305-310	....	Rénard	C. R., 92, 887	40, 739
Hevéene ....	....	"	315	....	Bouchardat	A., 37, 30	
Metaterebenthene ....	....	"	abt. 360	....	Berthelot	J., 6, 524	v., 924
Diterebene ....	....	"	310-315	....	(?)	(?)	"
Cinœphene ....	....	"	315-325	....	Hirzel	....	v., 1048
Camphoterpene ....	....	"	260-280	....	Ballo	B., 12, 324	36, 540
From copaiba oil ....	....	"	250-260	....	Straus	A., 148, 152	vi., 490
" " balsam ....	....	"	250-260	....	Brix	M. C., 2, 537	42, 65
" " " ....	....	"	252-260	....	"	M. C., 2, 512	
" " " ....	....	"	250	....	....	A., 7, 157; 34, 321	
From oil of poplar ....	....	"	260	Liquid	Piccard	B., 7, 1485, and C. C. [1875], 4	28, 1191
(?)	....	"	255	....	Werner	Z. C. [1862], 588	v., 1046
(?)	....	"	315	....	Gladstone	....	25, 6
Colophene dihydride	$C_{20}H_{32}.H_2$	$C_{20}H_{34}$	322	....	Montgolfier	C. R., 87, 840	36, 328
Dicamphene dihydride ....	....	"	321 c.	....	....	A. C. [5], 19, 150	
" " ....	....	"	321-323.6	94	Letts	B., 13, 795	38, 669
Dimenthene ....	....	$C_{20}H_{36}$	320	....	....	B. S., 31, 530	
Eikosylene ....	....	$C_{20}H_{38}$	314-315	....	Lippmann and Hawliczek	B., 12, 69	36, 447
Tetramylene ....	....	$C_{20}H_{40}$	390-400	....	Bauer	J., 14, 660	vi., 123
Eicosane	$Me.(CH_2)_{18}.Me$	$C_{20}H_{42}$	205 (15)	36.7	Krafft	B., 15, 1718	42, 1273
α-Dinaphthyl methane	$(C_{10}H_7)_2CH_2$	$C_{21}H_{16}$	a. 360	109	Grabowski	B., 7, 1606	28, 456
β- " " ....	"	"	....	92	Richter	B., 13, 1728	40, 282
Benzyl phenanthrene	$C_{14}H_{19}.CH_2Ph$	"	....	155-156	Goldschmidt	M. C., 2, 432	42, 202
Methylphenyl anthracene	$Me.CH=1.4$	"	....	119	Hemilian	B., 16, 2367	46, 322
	$C_6H_3Me \begin{array}{c} \diagup CPh \\ | \\ CH \\ \diagdown \end{array} C_6H_4$						
Ditolyphenyl methane	$Ph.CH.(C_6H_4.Me)_2$	$C_{21}H_{20}$	....	55-56	Thörner and Zincké	B., 11, 70	34, 425
Diphenyl-p-xylylmethane	$Ph_2CH.(C_6H_3.Me_2)$	"	....	91	Hemilian	B. S. [2], 34, 326	40, 434
" " ....	"	"	....	92	"	B., 16, 2360	46, 321

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dibenzyl toluene	Me.C ₆ H ₅ .(CH ₂ Ph) ₂	C ₂₁ H ₂₀	392-396(760); 280-285 (30-40)	Liquid	Weber and Zincké	B., 7, 1153	28, 155
From toluene red ....	....	"	360-363	36-40	Rosenstiehl & Gerber	C. R., 94, 1319	42, 964
Heneicosane	Me.(CH ₂) ₁₉ .Me	C ₂₁ H ₄₄	215 (15)	40.4	Krafft	B., 15, 1719	42, 1273
Dinaphthyl anthrylene	C ₁₀ H ₆ C:C.C ₁₀ H ₆	C ₂₂ H ₁₂	..	270	Grabowski	B., 11, 303	34, 509
Picene ....	....	C ₂₂ H ₁₄	...	337-339 u. c.; 345 c.	Burg	B., 13, 1834	40, 179
" ....	....	"	518-520	330-335	Græbe and Walter	B., 14, 177	40, 284
Dinaphthyl acetylene	C ₁₀ H ₇ .C:C.C ₁₀ H ₇	"	a. 360	225	Grabowski	B., 11, 302	34, 509
" ethylene	C ₁₀ H ₇ .CH:CH.C ₁₀ H ₇	C ₂₂ H ₁₆	360	Liquid	Hepp	B., 7, 1419	28, 362
Dixyl benzene	C ₆ H ₄ (C ₆ H ₃ Me ₂) ₂	C ₂₂ H ₂₂	392-396	Liquid	Senff	A., 220, 225	46, 427
Tritolyl methane	CH(C ₆ H ₄ Me) ₃	"	377	73	Rosenstiehl & Gerber	C. R., 94, 1319	42, 965
Dipentenyl benzene ...	CH ₂ Me.CHPh.CH.CH ₂	C ₂₂ H ₂₈	208-212	....	Dafert	M. C., 4, 616	44, 1094
	CH ₂ Me.CHPh.CH.CH ₂						
Bidiethyltolyl	(CH ₂ Et ₂ .C ₆ H ₄) ₂	C ₂₂ H ₃₀	a. 360	l. 0	"	"	"
Docosane	Me.(CH ₂) ₂₀ .Me	C ₂₂ H ₄₆	224.5 (15)	44.4	Krafft	B., 15, 1718	42, 1273
Naphthyldiphenyl methane....	C ₁₀ H ₇ .CH.Ph ₂	C ₂₃ H ₁₈	....	134; after crystallization or fusion 149	Lehne	B., 13, 358	38, 478
" "	"	"	....	150	Hemilian	B., 13, 678; B. S., 34, 326	40, 434
Tricosane	Me.(CH ₂) ₂₁ .Me	C ₂₃ H ₄₈	234 (15)	47.7	Krafft	B., 15, 1713	42, 1273
Triphenyl benzene	C ₆ H ₅ Ph ₃	C ₂₄ H ₁₈	....	167-168	Engler and Heine	B., 6, 638	26, 1036; vii., 945
" "	"	"	....	169-170	Engler and Berthold	B., 7, 1124	28, 63
" "	"	"	....	169.5	Engler	B., 8, 394	28, 890
" "	"	"	....	172-172.5	....	A., 209, 3	
Benzerythrene ....	....	"	....	307-308	Schultz	B., 11, 95	34, 323
" ....	....	"	....	307-308	Schmidt & Schultz	A., 203, 134	40, 435
Didiphenyl ....	....	"	....	187	Barth and Schreder	M. C., 3, 815	44, 469
From American petroleum ....	....	"	....	260	Prunier	C. R., 88, 316	36, 447
Carbopetrocene ....	....	"	....	268	"	A. C. [5], 17, 28	36, 1027
(?)	....	C ₂₄ H ₃₂	215-325	....	....	B. S., 33, 317	
Tetracosane	CH ₃ (CH ₂) ₂₂ CH ₃	C ₂₄ H ₅₀	243 (15)	51.1	Krafft	B., 15, 1718	42, 1273
Tetraphenyl methane	CPh ₄	C ₂₅ H ₂₀	....	145	Kekulé & Franchi- mont	B., 5, 907	26, 276
" "	"	"	....	145	Behr	B., 5, 970	"
" "	"	"	a. 360	Solid	Friedel and Crafts	C. R., 84, 1450	32, 864
Diphenylphenyl methane	CH ₂ (C ₆ H ₄ .C ₆ H ₅) ₂	"	a. 360	162 u. c.	Weiler	B., 7, 1181	28, 152
Triphenyl methane + benzene	CH.(Ph) ₃ .C ₆ H ₅	C ₂₅ H ₃₂	....	76	Kekulé & Franchi- mont	B., 5, 906	26, 171
" "	"	"	Begins 80	76-77	Schwarz	B., 14, 1519	40, 913
(?)	....	C ₂₅ H ₂₈	350-360	....	Fischer	B., 7, 1194	
From fluorene ....	....	(C ₂₆ H ₁₄) _n	....	270	Harpe and v. Dorp	B., 8, 1049	29, 242
" "	C ₆ H ₄ .C ₆ H ₄ .C:C.C ₆ H ₄ .C ₆ H ₄	C ₂₆ H ₁₆ (?)	a. 360	182-183	" "	"	29, 243
" "	C ₆ H ₄ .C ₆ H ₄ .CH:CH.C ₆ H ₄ .C ₆ H ₄	C ₂₆ H ₁₈	....	241-242	" "	"	"
Tetraphenylethylene....	Ph ₂ C:CPh ₂	C ₂₆ H ₂₀	....	221 u. c.	Behr	B., 3, 752; 5, 27	vii., 1150
" ....	"	"	....	221	Städel	A., 194, 311	36, 318
" ....	"	"	....	220	"	B., 9, 562	
"	"	"	Impure	214	Friedel and Balsohn	B. S. [2], 33, 337	38, 558
" ....	"	"	....	204	Schwarz	B., 14, 1526	40, 913
Dibenzylidiphenyl	C ₁₂ H ₈ (CH ₂ .C ₆ H ₅) ₂	C ₂₆ H ₂₂	....	113	Wolf	B., 14, 2032	42, 62
Tetraphenylethane	Ph ₂ CH.CHPh ₂	"	209	Zagoumeny	A., 184, 177; B., 9, 277	36, 318
"	"	"	207	Städel	A., 194, 310	"
"	"	"	206	Græbe	B., 8, 1055	29, 70
"	"	"	206	Engler	B., 11, 927	
"	"	"	207	"	"	

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Tetraphenylethane	$\text{Ph}_3\text{C}.\text{CH}_2\text{Ph}$	$\text{C}_{26}\text{H}_{22}$	(?)	Anschutz	B., 16, 2377	46, 326
"	"	"	205-206	Thörner and Zincke	B., 11, 67	34, 425
Cholesterilene α -	$\text{C}_{26}\text{H}_{42}$	....	240	Zwenger	A., 66, 7; 69, 347	1, 925
" β- .....	....	"	....	255	"	"	"
" γ- .....	....	"	....	127	"	"	"
" (α) .....	....	"	....	68	"	A., 69, 348	"
" (β) .....	....	"	....	175	"	A., 69, 349	"
Cholestrone (α) .....	....	"	....	68	....	C. R., 92, 195	"
" (?) .....	....	"	....	80	Walitzky	B., 9, 1310	31, 58
Cholesterilene hydride .....	....	$\text{C}_{26}\text{H}_{44}$	....	abt. 90	"	"	"
" (?)	$(\text{CH}_2\text{Ph}.\text{C}_6\text{H}_4)_2\text{CH}_2$	$\text{C}_{27}\text{H}_{34}$	....	abt. 90	Bayer	B., 6, 222	26, 885
Cerotene ....	....	$\text{C}_{27}\text{H}_{54}$	....	57-58	Brodie	A., 67, 210; J., 1, 708	iii., 187
" .....	....	"	....	65-66	König and Kieseew	B., 6, 500	26, 1215
Heptacosane	$\text{Me}.\text{(CH}_2\text{)}_{25}.\text{Me}$	$\text{C}_{27}\text{H}_{56}$	270 (15)	59.5	Krafft	B., 15, 1714	42, 1273
From β -pinacolin .....	....	$\text{C}_{28}\text{H}_{56}$	....	213-213.5	Thörner	B., 9, 1743	31, 465
" dioxyretistene .....	....	$\text{C}_{28}\text{H}_{30}$	290-310	....	Ekstrand	B., 17, 695	46, 1041
" anthracene .....	....	$\text{C}_{28}\text{H}_{58}$	360	....	Berthelot	B. S. [2], 9	vi., 741
Tetratolyethylene	$(\text{MeC}_6\text{H}_4)_2\text{C}:\text{C}.\text{(C}_6\text{H}_4\text{Me)}_2$	$\text{C}_{30}\text{H}_{28}$	....	215	Schwarz	B., 14, 1529	40, 913
From galbanum oil .....	....	$\text{C}_{30}\text{H}_{48}$	255	....	Mössner	A., 119, 257	24, 260
" " " .....	....	"	255	....	Kachler	B., 4, 39	"
" chamomile oil .....	....	"	250-255	....	"	"	"
Melissene ....	....	$\text{C}_{30}\text{H}_{60}$	....	62	....	....	iii., 187
Melene ....	....	"	370-380	62	Brodie	A., 71, 156	iii., 868
" .....	....	"	....	33.5	Ettling	A., 2, 259	"
" .....	....	"	....	47.8	Lewy	A. C. [3], 5, 395	"
Hentriacontane	$\text{Me}.\text{(CH}_2\text{)}_{29}.\text{Me}$	$\text{C}_{31}\text{H}_{64}$	302 (15)	68.1	Krafft	B., 15, 1714	42, 1273
From benzene and toluene .....	....	$\text{C}_{32}\text{H}_{58}$	404-427	....	Carnelley	37, 713	37, 713
Ditolyldixylylbethylene	$(\text{C}_7\text{H}_7)_2.\text{C}:\text{C}.\text{(C}_8\text{H}_9)_2$	$\text{C}_{32}\text{H}_{52}$	....	244-245	....	B., 14, 1532	"
Tetraxilyethylene	$(\text{C}_8\text{H}_9)_2.\text{C}:\text{C}.\text{(C}_8\text{H}_9)_2$	$\text{C}_{34}\text{H}_{56}$	....	244-245	Schwarz	B., 14, 1531	40, 913
Pentatriacontane	$\text{Me}.\text{(CH}_2\text{)}_{33}.\text{Me}$	$\text{C}_{35}\text{H}_{72}$	331 (15)	74.7	Krafft	B., 15, 1715	42, 1273
Tetraterebenthene .....	....	$\text{C}_{40}\text{H}_{64}$	....	b. 100	Riban	C. R., 79, 389	28, 61
Fichtelite ..	....	$\text{C}_{40}\text{H}_{70}$	....	46	....	A., 37, 304; 103, 236	"
α -Abietin ....	....	$\text{C}_{44}\text{H}_{60}$	295-303	....	....	Z. C. [1866], 35	"
(?)- " .....	....	"	101	....	Wurzel	P. J. [3], 2, 789	25, 392
Dammaryl ....	....	$\text{C}_{45}\text{H}_{72}$	....	190	....	J. [1847-48], 741	"
Oil of vertivert	Mixture (?)	(?)	280-283	....	Gladstone	....	25, 3
From chrysoquinone .....	....	"	....	200-204	Gräbe	B., 7, 782	27, 989
Action of heat on benzene .....	....	"	....	266	Schultz	A., 174, 201	28, 151
" " " .....	....	"	....	196	"	"	"
Petrocene	Mixture (?)	"	....	a. 300	Hemilian	C. C. [1877], 2	32, 867
Angustura bark oil .....	....	"	267	Liquid	Schlagdenhauffen	J. Ph., 4, 26, 130	32, 932
From rosin oil .....	....	"	....	94-95	Kelbe	B., 11, 2174	36, 467
" " " .....	....	"	....	86	"	"	"
From benzene and toluene ...	....	"	293-316	13	Carnelley	....	37, 715
α -Paracotene ....	....	"	160	....	Jobet and Hesse	A., 199, 17	38, 325
β- " .....	....	"	170	....	"	"	"
Stereopectene ....	....	"	....	33	Baur	D. P., 204, 258	25, 937
Oil of pimento .....	....	"	243	....	Gladstone	....	25, 2
From preparation of diphenyl .....	....	"	....	194	Osten	B., 7, 170	27, 581
Metanaphthalin ....	....	"	325	67	Pelletier & Walter	A. C. [2], 67, 267	41, 167
Leken from ozokerite .....	....	$\text{C}_{24}\text{H}_{24+2}$	....	79	Beilstein & Wiegand	B., 16, 1547	44, 1073
From lapachic acid .....	....	(?)	250	b. C_{10}H_8	Paternò	G. I., 22, 337	44, 212
Colophanthrene	Yellow	$\text{C}=\text{93} \cdot 2, \text{H}=\text{7} \cdot 0$	360	Cryst	Rénard	C. R., 97, 111	46, 83
"	White	"	340	87	"	"	"
From tobacco smoke....	$\text{C}=\text{84} \cdot 7 - \text{85} \cdot 5$ $\text{H}=\text{14} \cdot 6 - \text{15} \cdot 2$	64.5	Kissling	B., 16, 2432	46, 173

(2.) CCl_4 , CBr AND Cl .

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Carbon tetrachloride	CCl_4	78	Regnault	A. C. [2], 71, 383	
"	"	"	78	Goldschmidt	B., 14, 928	
"	"	"	77	Kolbe	A., 54, 146	
"	"	"	78.1 (748.3)	....	Pierre	C. R., 27, 213	37, 199
"	"	"	75-77 (724)	....	Krafft and Merz	B., 8, 1297 & 1300	
"	"	"	75-76 (721)	....	" "	B., 8, 1301 & 1302	
"	"	"	75-76	....	" "	B., 8, 1303	
"	"	"	77	....	Riche	....	37, 199
"	"	"	76	....	Schutzenberger	A. C. [4], 21, 350	
"	"	"	75.5 (739.4)	....	Haagen	P. A., 131, 117	
"	"	"	77	....	Hofmann	....	37, 199
"	"	"	76.5 (760)	....	Main	G. J. C., 1877	
"	"	"	76.5 (760)	s. 24.73	Regnault	M. A. S., 26, 658	iii., 135
"	"	"	76	....	Henry	A. S. S. B., 1879	
"	"	"	76.74 c. (760)	....	Thorpe	....	37, 199
"	"	"	77	....	....	....	i., 765
"	"	"	77	....	Plimpton & Graves	43, 123	
"	"	"	76.6 c.	....	Thorpe	....	35, 545
"	"	"	76.9 c.	....	Perkin	....	45, 532
"	"	"	76	....	Bolas and Groves	24, 779	vii., 324
"	"	"	76.4-76.5 u. c.	....	Brown	....	39, 206
"	"	"	76.45-76.6 u. c.	....	"	....	39, 211
"	"	"	76.45-76.6 u. c.	....	"	....	39, 306
"	"	"	75.4, 285.3 c. t.	....	Pawlewski	B., 16, 2633	46, 252
Dichloroacetylene	.... $\text{CCl}_2 : \text{CCl}_2$	C_2Cl_2	175-200	175-200	....	....	i., 768
Tetrachlorethylene	.... $\text{CCl}_2 : \text{CCl}_2$	C_2Cl_4	122	b. — 18	Regnault	A. C. [2], 71, 353	i., 767
"	"	"	123.9 (761.9)	....	Pierre	C. R., 27, 213 ; P. A., 76, 458	
"	"	"	116.7	....	Geuther	A., 107, 212	28, 746
"	"	"	122	....	Ruoff	B., 9, 1498	
"	"	"	121	....	Bourgoin	B., 8, 548 ; C. R., 80, 971	28, 746
"	"	"	118	....	Goldschmidt	B., 14, 929	
"	"	"	120 (725)	....	Krafft and Merz	B., 8, 1297 & 1301	
"	"	"	120	....	Brühl	A., 200, 139	38, 296
Hexachlorethane	.... $\text{CCl}_3 : \text{CCl}_3$	C_2Cl_6	182	160	....	....	i., 766
"	"	"	172	162	Regnault	....	36, 212
"	"	"	182.5 u. c.	....	Krafft and Merz	B., 8, 1297 & 1300	
"	"	"	....	179 c.	Geuther	....	36, 212
"	"	"	....	182	Smith and Davis	41, 414	
"	"	"	....	182-183	Hübner and Müller	Z. C., 6, 328	vii., 258
"	"	"	....	181	Ruoff	B., 9, 1497 & 1500	
"	"	"	....	181	"	B., 9, 1498 & 1499	
"	"	"	....	182	"	B., 9, 1490	
"	"	"	....	180	"	B., 9, 1486	
"	"	"	183.5-184.5 u. c. ; 187.51-188.43 c. (760)	185-186 u. c. ; 187.71-188.75 c.	Hahn	B., 11, 1737	36, 212
"	"	"	....	184.5-185 u. c. ; 186.85-187.4 c.	"	"	"
"	"	"	....	153.5	Geuther and Stapff	J. Z., 6, 228	vii., 479
"	"	"	182 (o. p.)	160	Naumann	B., 4, 646	24, 879
"	"	"	100 (31)	....	"	"	"
"	"	"	78 (13.5)	....	"	"	"
"	"	"	15 (1)	....	"	"	"
"	"	"	181	....	Stedel	Z. C. [2], 8, 515	25, 394
"	"	"	For b. p. table see Part III.				

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Octochloropropane	$\text{CCl}_3\text{CCl}_2\text{CCl}_3$	C_3Cl_8	268-269 (734)	abt. 160	Krafft and Müller	B., 8, 1298	29, 540
"	"	"	280	Liquid	Cahours	A., 76, 283; J., 3, 496	
(?)	C_4Cl_2	a. 200	Liquid	Puchot	A. C. [5], 28, 507	46, 167
Perchlormesol	C_4Cl_6	283-284 (733)	39	Krafft	B., 10, 804	32, 727
Perchlormecylene	C_5Cl_8	d. 270	39	Ost	J. p. C., 27, 294	44, 796
Hexachlorbenzene	C_6Cl_6	....	222	Klepl	J. p. C., 28, 193	46, 447
"	"	223	Smith and Davis	41, 414	
"	"	225	Ladenburg	B., 5, 789	26, 167; vii., 142
"	"	225	"	B., 6, 32	26, 499
"	"	306-307 (721)	222.5	Krafft and Merz	B., 8, 1302 & 1303	29, 540
"	"	310 n.c. (733)	....	Krafft	B., 10, 801	32, 727
"	"	326 c.	226	Berthelot and Jungfleisch	Z. C. [2], 4, 565; J., 21, 354	vi., 267
"	"	220	Beilstein and Kuhlberg	Z. C. [2], 5, 183	"
"	"	331 c.	226	Jahn	....	"
"	"	231 c.	Basset	J., 20, 608	
"	"	220	Müller	B., 5, 790	
"	"	309 (721.5)	223	Ruoff	B., 9, 1485 & 1491	
"	"	310 (725)	223	"	B., 9, 1486, 1488, and 1498	
"	"	222	"	B., 9, 1487	
"	"	310 (727)	223	"	B., 9, 1490 & 1499	
"	"	310 (721)	224	"	B., 9, 1492	
"	"	310 (720)	223	"	B., 1500	
"	"	309 (724.5)	223	"	B., 9, 1493 & 1494	
"	"	310 (724)	224	"	B., 9, 1493 & 1495	
"	"	309.5 (725)	223	"	B., 9, 1497	
"	"	309 (722)	223	"	B., 9, 1499	
Octochloronaphthalene	C_{10}Cl_8	....	203	"	B., 9, 1487	31, 300; 32, 901
"	"	172	Laurent	"	
"	"	403 p. d.	135	Berthelot and Jungfleisch	A. C. [4], 15, 332	32, 901; vi., 847
Decachlordiphenyl	$\text{Cl}_5\text{C}_6\text{C}_6\text{Cl}_5$	$\text{C}_{12}\text{Cl}_{10}$	....	not at 270	Ruoff	B., 9, 1491	31, 300
Chlorinated toluene	$\text{C}_{21}\text{Cl}_{26}$	....	152-153	Smith	J., 1877, 420	36, 387
Carbon tetrabromide	CBr_4	....	89	Gessner	B., 9, 1508	
" "	"	90.1	Hamilton	....	39, 48
" "	"	91	Bolas and Groves	A., 156, 60; 160, 171	23, 164
" "	"	189.5 (760)	....	....	24, 780	vii., 257
" "	"	189.5	....	Henry	A. C. [5], 30, 266	46, 718
" "	"	92	Hofmann	B., 15, 767	
" "	"	188-189	92.5	Schäffer	B., 4, 369	
" "	"	for b. p. table	see Part III.			
Tetrabromethylene	$\text{CBr}_2\text{:CBr}_2$	C_2Br_4	....	50	Lennox	J., 14, 653	
"	"	"	50	Limpricht	A., 165, 253	26, 625; vii., 828
"	"	"	50	Löwig	A., 3, 292	i., 764
"	"	"	53	Merz and Weith	B., 11, 2240, 2243	36, 302
Hexabromethane	CBr_3CBr_3	C_2Br_6	d. 170	Solid	Limpricht	A., 165, 253	26, 625
Hexabrombenzene	C_6Br_6	....	a. 300	Gessner	B., 9, 1049	30, 511
"	"	a. 300	Merz and Weith	B., 11, 2240	
"	"	306-308	....	M., 2, 196	
"	"	a. 310	Gessner	B., 9, 1505	31, 300
"	"	315	....	J. R., 9, 214	
Carbon tetraiodide	CI_4	d. 100	Solid	(?)	A., 172, 173; J. R., 6, 109	

(3.) CO AND CS.

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Carbon monoxide	CO	Gas				
" "	"	non-cond.	....	Wroblewski and Olszewski	M. C., 4, 415	44, 952
" "	"	—136 (150 ats.)				
" "	"	—193	....	Wroblewski	C. R., 98, 982	46, 817
Carbon dioxide	O : C : O	CO ₂	....	—73	Thilorier	A. C. [2], 60, 427	
" "	"	—56·5 to —58	Faraday	P. T. [1845], 155	
" "	"	—78·2	Berthelot	B. S.	
" "	"	—78·2 (760)	....	Regnault	M. A. S., 26, 658	iii., 84
" "	"	—78·2	....	Jarolimek	M. C., 3, 835	44, 418
" "	"	—80 (760)	....	Pictet	1878	
" "	"	—80	....	Cook	C. C. P., 592	
" "	"	cond. —65 (4 to 6 ats.)	....	Pictet	C. N., 36, 281	34, 10
" "	"	10·6 (60 ats.)	....	Davy and Faraday	30, 248	
" "	"	28·3 (70·39 ats.)	....	Hartley	"	
" "	vapour tension table	"	See Part III.				
Carbon monosulphide	CS	....	Solid	Sidot	C. R., 81, 32 ; B., 8, 982 ; Z. C. [1868], 622	28, 1236
Carbon disulphide	S : C : S	CS ₂	46·6 (760)	....	Gay Lussac	P. M. [4], 29, 4	37, 364
" "	"	46·9 (753)	....	Marx	Sw. J., 62, 460	
" "	"	46·2 (769)	....	Andrews	P. M. [4], 29, 4	37, 364
" "	"	45	....	Couërbe	A. C. [2], 61, 232	
" "	"	47·4 (760)	....	Friedburg	C. N., 47, 52	44, 535
" "	"	47·9 (755·8)	....	Pierre	C. R., 27, 213	iii., 84
" "	"	46·2 (760)	....	Regnault	M. A. S., 26, 658	iii., 135
" "	"	46 (760)	....	Buff	A. Sup., 4, 129	37, 364
" "	"	47·7 (745·5)	....	Haagen	P. A., 131, 117	
" "	"	46	....	Braun	C. C. [1875], 810	29, 979
" "	"	46·04 c. (760)	....	Thorpe	37, 363	
" "	"	20 (298)	....	Brown	....	39, 209
" "	"	45·1 (736) ; 45·5 (744·5) ; 46·0 (752) ; 46·1 (760) ; 46·2 (762)	....	Jones	....	33, 180
" "	"	46·8	....	Cossa	....	vi., 1061
" "	"	47 (768·5)	....	Schiff	G. J. C., 1881	
" "	"	—110	Wroblewski and Olszewski	C. R., 96, 1225	44, 781
" "	"	43	....	Ramsay	35, 471	
" "	"	46·6	....	Berthelot	....	35, 544
" "	"	—12 to —13(?)	Wartha	B., 3, 80 ; 4, 180, 221	vii., 265
" "	"	46	....	Pictet	P. M. [5], 1, 477	31, 163
" "	"	271·8 c. t.	....	Sajotschewsky	Wied. A. B. [1879], 741	45, 139
Penta carbon disulphide	C ₅ S ₂	b. p. table	see Part III.			
" "	"	135	Raale	N. R. P., 19, 449	vii., 265

(4.) CN.

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Cyanogen	N:C:C:N	C ₂ N ₂	....	-34.4	Faraday	P. T. [1845], 155	ii., 276
"	"	"	-21	....	Henry	B., 6, 737	26, 1129
"	"	"	-20	....	Cooke	C. C. P., 592	
"	"	"	....	-21 to -40	Hofmann	B., 3, 658	vii., 416
"	"	"	Cond. -22	....	Loir and Drion	B. S., 1, 184	iii., 97
"	"	"	Cond. ord. temp. (4 ats.)	....	Davy and Faraday	P. T. [1823], 196	ii., 275
"	"	"	Cond. -35 to -40 (o.p.)	s.b. -30	Bunsen	P. A., 46, 101	"
"	"	"	-20.7 (760)	....	"	P. A., 46	
"	"	"	12.5 (v. t. 4 ats.)	....	Niemann	....	ii., 275
"	vapour tension table	"	see Part III.				

II. COMPOUNDS CONTAINING THREE ELEMENTS.

CHF.

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl fluoride (?)	Et.F	C_2H_5F (?)	abt. 10	Liquid	Landolph	C. R., 86, 1463	34, 774
" "	"	"	10-15	....	"	B., 12, 1586	38, 28
Amyl fluoride	(impure)	$C_5H_{11}F$	72-92	....	Young	....	39, 497
Fluobenzene	(only phenol., see 46, 426)	C_6H_5F	182-183	40	Schmidt and Gehm	J. p. C. [2], 1, 394	24, 369; 42, 615
"	PhF	"	85-86	1. — 20	Paternò and Oliveri	G. I., 13, 533	46, 426
Fluotoluene	$C_6H_4Me.F = 1.4$	C_7H_7F	114	Liquid	" "	"	"

CHCl.

Trichlormethane (chloroform)	....	$CHCl_3$	61	....	Regnault	A. C. [2], 71, 381	i., 919
" "	....	"	61.1-61.2 (760)	....	Main	G. J. C., 1877	"
" "	....	"	60.5	....	Remys	A. Ph. [3], 5, 513	28, 439
" "	....	"	62	....	Reichardt	A. P. [3], 5, 593	29, 363
" "	....	"	60	....	Pictet	P. M. [5], 1, 477	31, 163
" "	....	"	....	— 70	Berthelot	B. S. [2], 29	34, 263
" "	....	"	60.5 (743)	....	Haagen	G. J. C., 1867	
" "	....	"	62-63	....	Werner	A. Ph. [3], 12, 481	34, 821
" "	....	"	60.8	....	Regnault	J. Ph. [4], 29, 402	36, 747
" "	....	"	61.2 c. (760)	....	Thorpe	....	37, 196
" "	....	"	62 c.	....	Perkin	....	45, 530
" "	....	"	63.5 (772.52); 63 (760)	b. — 16	Pierre	C. R., 27, 213	
" "	....	"	60-65	....	Goldberg	J. p. C. [2], 24, 97	42, 28
" "	....	"	62	....	Rump	C. C., 6, 34	
" "	....	"	60.2	....	Regnault	M. A. S., 26, 658	
" "	....	"	63	....	Schiff	G. J. C., 1881	
" "	....	"	70	....	Soubeiran	A. C. [2], 48, 139	
" "	....	"	60.8	....	Liebig	A., 1, 199	i., 919
" "	....	"	61.5	....	Schall	B., 16, 3013	46, 551
" "	....	"	260 c. t.	....	Sajotschewsky	Wied. A. [1879], 741	45, 138
" (methylene chloride)	....	CH_2Cl_2	30.5	....	Regnault	A. C. [2], 71, 378	iii., 988
" "	....	"	40	l. f. m.	....	....	iii., 1005
" "	....	"	30	....	....	....	"
" "	....	"	40	....	Sakurai	41, 362	
" "	....	"	40.4-42	....	Perkin	22, 260; C. N., 18, 106	vi., 827, 829
" "	....	"	39.5-40.5	....	Butlerow	Z. C. [2], 5, 276	vi., 829
" "	....	"	41.6 c. (760)	....	Thorpe	....	37, 194
" "	....	"	40-41	....	Butlerow	A., 111, 251	
" "	....	"	40	....	Perkin	....	45, 527
" "	....	"	40-41	....	Greene	C. R., 89, 1077	38, 307
Methyl chloride	....	CH_3Cl	b. — 18	....	Dumas and Peligot	A. C., 61, 193	iii., 987
" "	....	"	— 23.7 (760)	....	Regnault	M. A. S., 26, 658	
" "	....	"	— 20 to — 22	....	Berthelot	J., 8, 599	
Trichlorethylene	$Cl_2C : CHCl$	C_2HCl_3	88	....	Berthelot and Jungfleisch	C. R., 69, 542	vi., 33
"	"	"	87-90	....	Fischer	Z. C. [1864], 268	vi., 603
"	"	"	87-88	....	Paternò and Pisati	G. I., 1, 461	24, 1191
"	"	"	88	Liquid	Berthelot and Jungfleisch	A. C. [4], 26, 472	25, 996; vii., 20
"	"	"	87-88	....	Paternò & Ogliolara	G. I., 3, 533	27, 460
"	"	"	87	....	Sabančeff	B. S. [2], 34, 323	40, 399
"	"	"	160-170	....	....	J. [1864], 481	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Pentachlorethane	$\text{CCl}_3\text{CHCl}_2$	C_2HCl_5	146	....	Regnault	A. C. [2], 71, 368	ii., 532
"	"	"	153	....	"	Z. F. C., 12, 245	vi., 585; vii., 479
"	"	"	158	l. — 18	Paternò	C. R., 68, 450	vi., 584
"	"	"	158	....	Henry	B., 4, 101	24, 255
"	"	C_2HCl_5	158	....	Paternò and Pisati	G. I., 1, 461	24, 1191
"	"	"	158	....	Stædel	Z. C. [2], 8, 513	25, 394
"	"	"	158	....	Paternò & Oglialoro	G. I., 3, 533	27, 460
"	"	"	159.1 c. (759.9)	....	Thorpe	....	37, 192
"	"	"	153.8 (763.3)	Liquid	Pierre	C. R., 27, 213	37, 192; ii., 573
"	"	"	138.1 (400)	....	Stædel	B., 15, 2559; B., 13, 840	
"	"	"	146 (500)	....	"	"
"	"	"	152.7 (600)	....	"	"
"	"	"	158.5 (700)	....	"	"
"	"	"	161.7 (760)	....	"	"
"	"	"	163.8 (800)	....	"	"
"	"	"	168.6 (900)	....	"	"
"	"	"	172.9 (1000)	....	"	"
"	"	"	176.1 (1080)	....	"	"
(?)	C_2Cl_6 (?)	" (?)	....	180–181	Hubner	A., 120, 330	vi., 22, 585
Acetylene dichloride	$\text{CHCl} : \text{CHCl}$	$\text{C}_2\text{H}_2\text{Cl}_2$	55	....	Berthelot	B. S. [2], 5, 191	vi., 33
"	"	"	55	....	Plimpton	41, 397	
"	"	"	abt. 55	....	Berthelot and Jungfleisch	A. C. [4], 26, 472	25, 996; vii., 19
"	"	"	55	....	Henry	C. R., 98, 741	46, 831
Dichlorethylene	$\text{CH}_2 : \text{CCl}_2$	"	35–40	....	Regnault	A. C. [2], 69, 155	ii., 573
"	"	"	35	....	Henry	C. R., 98, 741	46, 831
"	"	"	37	....	Krämer	B., 3, 261	vii., 490
"	"	"	36	....	Baumann	A., 163, 308	25, 891
"	"	"	35–37	....	Henry	C. R., 97, 1491; C. R., 98, 518	46, 571, 719
"	"	"	37	....	Plimpton	41, 397	
Acetylene tetrachloride	$\text{CHCl}_2\text{CHCl}_2$	$\text{C}_2\text{H}_2\text{Cl}_4$	147	Liquid	Berthelot and Jungfleisch	A. C. [4], 26, 472; C. R., 69, 542	vi., 33; vii., 20 25, 996
"	"	"	124.1 (400)	....	Stædel	A., 195, 188	
"	"	"	131.9 (500)	....	"	B., 15, 2563; B., 13, 840	
"	"	"	138.2 (600)	....	"	"
"	"	"	143.8 (700)	....	"	"
"	"	"	146.8 (760)	....	"	"
"	"	"	148.6 (800)	....	"	"
"	"	"	153.2 (900)	....	"	"
"	"	"	157.2 (1000)	....	"	"
"	"	"	160.2 (1080)	....	"	"
"	"	"	146	....	Geuther	Z. C. [2], 7, 147	24, 513
"	"	"	147 c.	....	Paternò and Pisati	G. I., 1, 461	24, 1191
"	"	"	147	....	"	N. C. [2], 4, 401	25, 394
"	"	"	153.5	....	Geuther	Z. C. [2], 7, 147	24, 513
Tetrachlorethane	$\text{CCl}_3\text{CH}_2\text{Cl}$	" (?)	135	....	Regnault	A. C. [2], 69, 162	ii., 573
"	"	"	138.6	....	Pierre	C. R., 27, 213	
"	"	"	133–136	....	Geuther	Z. C. [2], 7, 147	24, 513; vii., 479
"	"	"	138	....	Stædel	A., 195, 188; A., 80, 130	
"	"	"	135.1	....	"	A., 195, 188	
"	"	"	108.1 (400)	....	"	B., 15, 2563	44, 303
"	"	"	115.7 (500)	....	"	"
"	"	"	121.9 (600)	....	"	"
"	"	"	127.5 (700)	....	"	"
"	"	"	130.5 (760)	....	"	"
"	"	"	132.5 (800)	....	"	"
"	"	"	136.9 (900)	....	"	"
"	"	"	141.0 (1000)	....	"	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.	
Tetrachlorethane	$\text{CCl}_3\text{CH}_2\text{Cl}$	$\text{C}_2\text{H}_2\text{Cl}_4$	144.1 (1080)	....	Stædel	B., 15, 2563	44, 303
"	"	"	127.5	....	"	Z. C. [2], 8, 513	25, 394
"	"	"	102	..	Geuther	Z. C. [2], 7, 147	24, 513
"	"	"	102	....	Regnault	A. C. [2], 71, 366	25, 393; ii., 532
Chlorethylene	$\text{CH}_2:\text{CHCl}$	$\text{C}_2\text{H}_3\text{Cl}$	-18 to -15	Liquid	"	A., 108, 224	ii, 573
"	"	"	-17 to -18	"	Kekule and Zincké	A., 162, 125; B., 3, 131	25, 491
"	"	"	-17 to -18	....	Sabanéeff	B. S. [2], 34, 323	40, 399
Chloracetene	Mixture (l)	"	45	s. 0	Harnitz-Hartnitzky	A., 111, 192	25, 492
"	"	"	45	s. 0	Kraut	B., 3, 129	"
Chlorethylene	$(\text{C}_2\text{H}_3\text{Cl})_n$	....	a. 130	Baumann	A., 163, 318	25, 891
Dichlorvinyl chloride	$\text{C}_2\text{H}_3\text{Cl}_2$	36	....	"	"	vii., 1203
Methyl chloroform	CCl_3CH_3	$\text{C}_2\text{H}_3\text{Cl}_3$	75	....	Regnault	A. C. [2], 71, 364	ii., 532; vii., 479
"	"	"	"	72-75	....	Geuther	Z. C. [2], 7, 128	24, 515
"	"	"	"	74.5	....	Stædel	Z. C. [2], 7, 197	24, 696
"	"	"	"	74	....	"	Z. C. [2], 8, 513	25, 394
"	"	"	"	74.9	....	Pierre	C. R., 27, 213	"
"	"	"	"	75.3-76.3 c.	....	Perkin	45, 531	"
"	"	"	"	54.7 (400)	....	Stædel	B., 15, 2563; B., 13, 840	"
"	"	"	"	61.3 (500)	....	"	"	"
"	"	"	"	66.6 (600)	....	"	"	"
"	"	"	"	71.5 (700)	....	"	"	"
"	"	"	"	74.1 (760)	....	"	"	"
"	"	"	"	75.8 (800)	....	"	"	"
"	"	"	"	79.8 (900)	....	"	"	"
"	"	"	"	83.3 (1000)	....	"	"	"
"	"	"	"	86.1 (1080)	....	"	"	"
Chlorethylene dichloride	$\text{CHCl}_2\text{CH}_2\text{Cl}$	"	115	....	Regnault	A. C. [2], 69, 153	ii., 573
"	"	"	"	115	....	Geuther	Z. C. [2], 7, 147	24, 513; vii., 479
"	"	"	"	114.8-115.3	....	Perkin	45, 531	"
"	"	"	"	115	....	Krämer	B., 3, 261	vii., 490
"	"	"	"	115	....	Stædel	Z. C. [2], 8, 513	25, 394
"	"	"	"	114.2	....	Pierre	C. R., 27, 213	"
"	"	"	"	114	....	Tawildaroff	B. S. [2], 34, 346	40, 398
"	"	"	"	115	....	Sabanéeff	B. S. [2], 34, 323	40, 399
"	"	"	"	92.8 (400)	....	Stædel	B., 15, 2563; B., 13, 840	"
"	"	"	"	99.7 (500)	....	"	"	"
"	"	"	"	105.6 (600)	....	"	"	"
"	"	"	"	110.7 (700)	....	"	"	"
"	"	"	"	113.7 (760)	....	"	"	"
"	"	"	"	115.6 (800)	....	"	"	"
"	"	"	"	119.8 (900)	....	"	"	"
"	"	"	"	123.6 (1000)	....	"	"	"
"	"	"	"	126.5 (1080)	....	"	"	"
Ethylene dichloride	$\text{CH}_2\text{ClCH}_2\text{Cl}$	$\text{C}_2\text{H}_4\text{Cl}_2$	82.5 (765)	....	Regnault	A. C. [2], 58, 307	ii., 572
"	"	"	"	85 (770)	....	Dumas	A. C. [2], 48, 196	"
"	"	"	"	83 (760)	....	Frankland & Dobbin	....	33, 546
"	"	"	"	82.5	....	Geuther	J., 15, 421	vii., 479
"	"	"	"	85	....	Krämer	B., 3, 259	vii., 490
"	"	"	"	85.8	....	Depretz	"	"
"	"	"	"	84	....	Stædel	Z. C. [2], 8, 513	25, 394
"	"	"	"	82	....	Plimpton & Graves	43, 123	"
"	"	"	"	85	....	Plimpton	41, 397	"
"	"	"	"	85; 283 c. t.	...	Pawlewski	B., 16, 2633	46, 252
"	"	"	"	83.7 c.	....	Perkin	....	45, 528
"	"	"	"	85	....	Lescœur	B. S. [2], 29, 483	34, 718
"	"	"	"	83.5 (753.9)	....	Thorpe	....	37, 182
"	"	"	"	82.4 (765)	....	Liebig	A., 94, 245	"
"	"	"	"	85	....	"	A., 10	"
"	"	"	"	84.92 (761.88)	....	Pierre	C. R., 27, 213	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethylene dichloride	$\text{CH}_2\text{Cl}.\text{CH}_2\text{Cl}$	$\text{C}_2\text{H}_4\text{Cl}_2$	85	....	Haagen	P. A., 131, 117	
" "	"	"	85	....	Maumené	J., 22, 346	
" "	"	"	84.5-85 (760)	....	Brühl	G. J. C., 1880	
" "	"	"	83-85	....	Schorlemmer	....	39, 144
" "	"	"	84-84.5	....	Brown	....	39, 209
" "	"	"	64.7 (400)	....	Stædel	B., 15, 2563; B., 13, 840	
" "	"	"	71 (500)	....	"	"
" "	"	"	76.6 (600)	....	"	"
" "	"	"	81.5 (700)	....	"	"
" "	"	"	84.1 (760)	....	"	"
" "	"	"	85.7 (800)	....	"	"
" "	"	"	89.7 (900)	....	"	"
" "	"	"	93.4 (1000)	....	"	"
" "	"	"	95.9 (1080)	....	"	"
Ethylidene "	$\text{CH}_3.\text{CHCl}_2$	"	64	....	Regnault	A. C. [2], 71, 357	ii., 531; vii., 479
" "	"	"	58	....	Wurtz and Frapolli	C. R., 45, 1015	ii., 599
" "	"	"	60	....	Geuther	A., 105, 323	33, 546; ii., 599
" "	"	"	60	....	Beilstein	....	24, 696; vii., 479
" "	"	"	59	....	Henry	C. R., 97, 1491	46, 571
" "	"	"	58	....	Plimpton	41, 397	
" "	"	"	57.8 ; 254.5 c. t.	....	Pawlewski	B., 16, 2633	46, 252
" "	"	"	57-59	....	Geuther	J., 11, 289	24, 696
" "	"	"	57.4-57.6 (751)	....	Brühl	G. J. C., 1880	
" "	"	"	57-59	....	Geuther and Stapf	J. Z., 6, 228	vii., 479
" "	"	"	60	....	Krämer	B., 3, 259	vii., 490
" "	"	"	64	....	Walters	J. p. C. [2], 4, 57	24, 923
" "	"	"	59	....	Stædel	Z. C. [2], 8, 513	25, 394
" "	"	"	57.5	....	Bunté	A., 170, 305	27, 354
" "	"	"	61	....	Gladstone & Tribe	C. N., 29, 212	27, 616
" "	"	"	60	....	Lescœur	B. S. [2], 29, 483	34, 718
" "	"	"	59.9 (755)	....	Thorpe	....	37, 183
" "	"	"	57-59	....	Darling	J., 21, 329	"
" "	"	"	57-57.5	....	Perkin	45, 529	
" "	"	"	64.8 (754.1)	....	Pierre	C. R., 27, 213	37, 183
" "	"	"	62	....	Stædel	Z. C., 14, 197	24, 696
" "	"	"	39.6 (400)	....	"	B., 15, 2563	44, 302
" "	"	"	45.4 (500)	....	"	B., 13, 840	"
" "	"	"	50.7 (600)	....	"	"	"
" "	"	"	55 (700)	....	"	"	"
" "	"	"	57.7 (760)	....	"	"	"
" "	"	"	59.4 (800)	....	"	"	"
" "	"	"	63 (900)	....	"	"	"
" "	"	"	66.3 (1000)	....	"	"	"
" "	"	"	68.5 (1080)	....	"	"	"
Ethyl chloride	$\text{CH}_3.\text{CH}_2\text{Cl}$	$\text{C}_2\text{H}_5\text{Cl}$	11 (758)	b. -29	Pierre	C. R., 27, 213	ii., 529
" "	"	"	12.18	....	Linnemann	A., 160, 214, 162, 39	vii., 203
" "	"	"	11.5	....	Stædel	Z. C. [2], 8, 513	25, 394
" "	"	"	11-12	....	Schorlemmer	J., 17, 467	
" "	"	"	12	....	Thénard		
" "	"	"	10	....	Pictet	P. M. [5], 1, 477	31, 163
" "	"	"	11-13	....	Darling	J., 21, 328	
" "	"	"	12	....	Denzel	A., 195, 210	36, 368
" "	"	"	12	....	Sabanéeff	B. S. [2], 34, 323	40, 399
" "	"	"	12.5 (760)	....	Regnault	M. A. S., 26, 658	
" "	"	"	182.6 c. t.	....	Sajotschewsky	Wied. B. [1879], 741	45, 138
" "	"	"	-3.6 (400)	....	Stædel	B., 13, 840; B., 15, 2563	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl chloride	$\text{CH}_3\text{CH}_2\text{Cl}$	$\text{C}_2\text{H}_5\text{Cl}$	+1.7 (500)	....	Stædel	B., 13, 840 ; B., 15, 2563	
"	"	"	6.3 (600)	....	"	"
"	"	"	10.3 (700)	....	"	"
"	"	"	12.5 (760)	....	"	"
"	"	"	13.9 (800)	....	"	"
"	"	"	17.1 (900)	....	"	"
"	"	"	20.1 (1000)	....	"	"
"	"	"	22.3 (1080)	....	"	"
Heptachlorpropane	....	\text{C_3HCl_7	260	....	Cahours	A., 76, 283 ; J., 3, 496	
Dichlorallylene	....	$\text{C}_3\text{H}_2\text{Cl}_2$	78	Liquid	Judson	Z. C. [2], 7, 40	24, 233 ; vii., 398
"	$\text{CH}_2 : \text{C} : \text{CCl}_2$	"	78	....	Krämer and Pinner	A., 158, 37	24, 557
Tetrachlorpropylene	....	$\text{C}_3\text{H}_2\text{Cl}_4$	165	....	Borsche and Fittig	A., 133, 118	vi., 28
Hexachlorpropane	....	$\text{C}_3\text{H}_2\text{Cl}_6$	250	Liquid	Schorlemmer	....	vi., 958
"	....	"	240-245	....	Cahours	A., 76, 283 ; J., 3, 496	
Propargyl chloride	$\text{CH} : \text{C} . \text{CH}_2\text{Cl}$	$\text{C}_3\text{H}_3\text{Cl}$	65	....	Henry	B., 8, 398	
α -Trichlorpropylene	....	$\text{C}_3\text{H}_3\text{Cl}_3$	115	....	Borsche and Fittig	A., 133, 117	vi., 28
β -	"	"	120	....	Pinner	B., 8, 960	29, 57
β -	"	"	138-140	....	"	B., 5, 207	vii., 1020
"	"	"	142	....	Pfeffer and Fittig	A., 135, 361	"
Pentachlorpropane	$\text{CCl}_2 : \text{C}_2\text{H}_3\text{Cl}_3$	$\text{C}_3\text{H}_3\text{Cl}_5$	194	....	Borsche and Fittig	A., 133, 116	vi., 28
"	isomeric	"	....	Solid	"	A., 133, 123	"
"	....	"	220-225	....	Cahours	A., 76, 283 ; J., 3, 496	
(1)	....	$\text{C}_3\text{H}_4\text{Cl}_2$	79-85	....	Friedel and Silva	C. R., 74, 805	25, 399
Allylene dichloride	$\text{Me} . \text{CCl} : \text{CHCl}$	"	75	....	"	C. R., 75, 81	25, 805
"	"	"	76	....	"	C. R., 73, 957	25, 806
"	"	"	75	....	"	C. R., 74, 806	vii., 1019
"	"	"	77	....	Lieben and Zeisel	M. C., 4, 531	44, 964
"	"	"	78	....	....	A., 158, 47 ; 179, 44	
Allylidene	$\text{CHCl}_2 . \text{CH} : \text{CH}_2$	"	84.4	....	Hübner & Genther	A., 114, 37	i., 147 ; vi., 97
"	"	"	85	....	Romborh	B. S. [2], 36, 549	42, 376
"	"	"	85	....	Romborh	B. S. [2], 37, 98	42, 590
α -Dichlorpropylene	$\text{CH}_2\text{Cl} . \text{CCl} : \text{CH}_2$	"	93	....	Friedel and Silva	C. R., 73, 957	24, 1190 ; vii., 1019
α -	"	"	94	....	"	C. R., 74, 805 ; 75, 81	25, 805
α -	"	"	91-97	....	Claus	A., 170, 126	25, 399
α -	"	"	94	....	Reboul	C. R., 95, 993	44, 308
α -	"	"	94-96	....	Henry	C. R., 94, 1428	42, 1039
α -	"	"	95	....	"	C. R., 95, 849	44, 173
α -	"	"	94-95	....	....	....	27, 243
α -	"	"	97-98	....	Henry	B., 5, 965	
β -	$\text{CH}_2\text{Cl} . \text{CH} : \text{CHCl}$	"	101-102 p.d.	....	Reboul	J., 13, 460	ii., 899
"	"	"	102	....	Geuther	Z. C. [1865], 26	vi., 56
"	"	"	101	....	Berthelot	A., 155, 105	vii., 319
β -	"	"	105-107	....	Friedel and Silva	C. R., 75, 85	25, 805 ; vii., 1019
β -	"	"	109	....	Krestownikoff	B., 12, 1487	38, 235
β -	"	"	109	Liquid	Hartenstein	J. p. C. [2], 7, 295	28, 1218
β -	"	"	109-110 c.	Liquid	Romborh	B. S. [2], 36, 549	42, 376
γ -	"	"	abt. 120	....	Berthelot and Luca	A. C. [3], 52, 433	1, 894
γ -	"	"	120	....	Borsche and Fittig	A., 133	vi., 97
Allylene tetrachloride	....	$\text{C}_3\text{H}_4\text{Cl}_4$	150	....	Pinner	B., 10, 1057	32, 587
"	$\text{CH}_2\text{Cl} . \text{CCl}_2 . \text{CH}_2\text{Cl}$	"	153	....	Borsche and Fittig	A., 133, 115	vi., 27, 97
"	....	"	153	....	Ganswindt	I. D., Jena, 1873	
"	$\text{CH}_2\text{Cl} . \text{CCl}_2 . \text{CH}_2\text{Cl}$	"	164-165	....	Henry	C. R., 94, 1428	42, 1039
Tetrachloroglycide	....	"	164	....	Pfeffer and Fittig	J., 18, 504	vii., 1020
(1)	....	"	164	....	Borsche and Fittig	A., 133, 111	vi., 97

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
(?)	....	$C_3H_4Cl_4$	164	....	Berthelot	A., 155, 105	vii., 319
(?)	....	"	161-164	....	"	A., 155, 108	"
(?)	From acetone	"	165	....	"	"	"
Allylidene tetrachloride	....	"	171	Liquid	Hartenstein	J. p. C. [2], 7, 313	42, 376
"	....	"	180 (766'4)	Liquid	Romborh	B. S. [2], 36, 549	"
"	....	"	179-180	....	"	"	"
"	....	"	(756'6)	....	"	"	"
Tetrachlorpropane	....	"	179-180	....	"	"	"
"	....	"	(756'6)	....	"	"	"
"	....	"	....	177-178 s. t.	Schorlemmer	P. R. S., 18, 29	vi., 958
"	....	"	180-190	145	Berthelot	A., 155, 109	vii., 319
"	....	"	195-200	....	"	"	"
"	....	"	195-200	....	Cahours	A., 76, 283; J., 3, 496	"
α -Chlorpropylene	$CH_2 : CCl.Me$	C_3H_5Cl	25'5	....	Oppenheim	A., 140, 204	vi., 91; vii., 1019
"	"	"	25-35	....	Friedel & Ladenburg	A., 142, 310	vi., 826
"	"	"	30	....	Friedel	J., 12, 338	"
"	"	"	23	....	Linnemann	A., 138, 125	vi., 967
"	"	"	23	....	Oppenheim	J., 21, 339	"
"	"	"	25-28	....	Friedel and Silva	C. R., 74, 955	24, 1190
"	"	"	25-30	....	"	B. S. [2], 17, 532	vii., 1019
"	"	"	23-25	....	Reboul	C. R., 82, 377	29, 894
"	"	"	23-25	....	"	A. C. [5], 14, 453	36, 128
"	"	"	25	....	"	"	"
"	"	"	25-30	....	"	"	36, 131
β -	$CHCl : CH.CH_3$	"	33-35	....	"	C. R., 82, 377	29, 894
"	"	"	35-36	Liquid	"	A. C. [5], 14, 462	36, 128
Allylchloride	$CH_2 : CH.CH_2Cl$	"	44-45	....	Oppenheim	A., 140, 206	vi., 91
"	"	"	45'5-47	....	Tollens	A., 156, 155	"
"	"	"	44'6	....	Brühl	A., 200, 179	38, 296
"	"	"	44'5-47	....	Zander	A., 214	"
"	"	"	45-46 c.	....	Perkin	45, 541	"
"	"	"	45'5	....	Pawlewski	B., 16, 2633	46, 252
"	"	"	240'7 c. t.	....	"	"	"
Chloracetone dichloride	$CH_2Cl.CCl_2.CH_3$	$C_3H_5Cl_3$	122-126	....	Friedel and Silva	C. R., 74, 955	24, 1190
"	"	"	125	....	"	C. R., 74, 806	25, 399; vii., 1018
"	"	"	123-127	....	Bielohoubek	B., 9, 924	"
"	"	"	127	....	Friedel	C. R., 59, 294	vii., 1019
Dichloracetone monochloride	$CHCl_2.CHCl.CH_3$	"	137	....	"	B. S., 34, 129	"
"	"	"	140-145	....	Berthelot	A., 155, 105	vii., 319
"	"	"	140	....	Friedel and Silva	C. R., 74, 805	25, 399
Isotrichlorhydrin	$CH_2Cl.CH_2.CHCl_2$	"	144-148	....	Krestownikoff	B., 12, 1487	38, 234
"	"	"	146-148	....	Romborh	B. S. [2], 37, 98	42, 590
Trichlorhydrin	$CH_2Cl.CHCl.CH_2Cl$	"	155	....	Berthelot & de Luca	J., 10, 477	i., 894
"	"	"	154-157	....	Linnemann	A., 136, 51	vi., 965
"	"	"	155	....	Berthelot	A., 155, 105	vii., 319
"	"	"	155	....	Friedel and Silva	C. R., 74, 805	25, 399
"	"	"	156-157 u. c.;	....	Perkin	45, 532	"
"	"	"	157-158 c.	....	"	"	"
"	"	"	153-157	....	Bielohoubek	B., 9, 924	"
"	"	"	154-157	b. -10	Oppenheim	B. S. [2], 2, 97	vi., 91
"	"	"	150-160	....	Schorlemmer	P. R. S.	vi., 958
Trichlorpropane	From isopropyl iodide	"	150-160	....	Berthelot	A., 155, 105	vii., 319
"	" propane	"	150-160	....	"	"	vii., 320
"	"	"	170	....	"	"	vii., 319
"	"	"	170	....	Cahours	J., 3, 496	"
Methylchloracetol	$CH_3.CCl_2.CH_3(?)$	$C_3H_6Cl_2$	25-35	....	Friedel and Silva	C. R., 74, 806	vii., 1018
Dimethyldichlormethane	$CH_3.CCl_2.CH_3$	"	66-78	....	Friedel & Ladenburg	A., 142, 315	vi., 826

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dimethyldichlormethane	$\text{CH}_2\text{ClCH}_2\text{CH}_3$	$\text{C}_3\text{H}_6\text{Cl}_2$	70	....	Berthelot	A., 155, 105	vii., 319
"	"	"	69-70	....	Reboul	C. R., 74, 669, 944; A. C. [5], 14, 453	vii., 51; 25, 393; 36, 128
"	"	"	68.5-69.5 c.	....	Perkin	45, 529	
"	"	"	69.7-71.2 c.	....	"	"
"	"	"	69.69	....	Linnemann	A., 161, 67	
"	"	"	69	....	"	A., 138, 125	
"	"	"	abt. 70	....	Friedel and Silva	C. R., 73, 1379	25, 134
Ethyldichlormethane	$\text{CH}_3\text{CH}_2\text{CHCl}_2$	"	84-87	....	Reboul	C. R., 76, 1270	26, 1016
"	"	"	85-87	....	"	C. R., 82, 377	29, 894
"	"	"	85-87	....	"	A. C. [5], 14, 458	36, 128
(?)	....	"	90	....	Friedel and Silva	Z. C. [2], 7, 489	25, 296
Propylene dichloride	$\text{CH}_2\text{ClCHClCH}_3$	"	94-98	....	Schorlemmer	P. R. S.	vi., 958
"	"	"	abt. 96	....	Friedel and Silva	C. R., 73, 1379	25, 134; vii., 1018
"	"	"	96	....	"	Z. C. [2], 7, 489	25, 296
"	"	"	96.82 c.	....	Linnemann	A., 161, 43	25, 238
"	"	"	93	....	Jeltekow	B., 6, 558	26, 1016
"	"	"	96-97	....	Reboul	A. C. [5], 14, 453	36, 128
"	Mixture (?)	"	100-103	....	Reynolds	J., 3, 495	
"	"	"	104	....	Cahours	J., 3, 496	
"	"	"	103	....	Wurtz	....	v., 893
"	"	"	104	....	Berthelot	A., 155, 105	vii., 319
"	$\text{CH}_2\text{ClCH}_2\text{CH}_2\text{Cl}$	"	117	....	Reboul	C. R., 76, 1270	26, 1016
"	"	"	119	....	"	A. C. [5], 14, 460	36, 128, 133
"	"	"	119.5 (740)	Liquid	....	W. A., 2, 638	
(?)	....	"	200	....	Berthelot	A., 155, 105	vii., 320
Isopropyl chloride	$\text{CH}_3\text{CHClCH}_3$	$\text{C}_3\text{H}_7\text{Cl}$	37 (741)	....	....	....	v., 890
"	"	"	35-38	....	Zander	A., 214, 157	
"	"	"	36-38 (741)	....	Linnemann	J., 18, 489	vi., 965
"	"	"	36	....	Friedel and Silva	C. R., 73, 1379	25, 134
"	"	"	abt. 36	....	Silva	C. R., 93, 739	42, 294
"	"	"	36	....	"	Z. C. [2], 7, 489	25, 296
"	"	"	b. 39	....	Linnemann	A., 161, 43	25, 236
"	"	"	36-37 (730)	....	"	"	25, 238
"	"	"	35 c.	....	Perkin	45, 450	
Propyl chloride	$\text{CH}_3\text{CH}_2\text{CH}_2\text{Cl}$	"	abt. 40	....	Berthelot	J., 8, 613	
"	"	"	44-45 c.	....	Perkin	45, 450	
"	"	"	42-46	....	Schorlemmer	P. R. S., 17, 372	vi., 957
"	"	"	52	....	Chancel	J., 22, 359	vi., 964
"	"	"	46.5	....	Pierre and Puchot	A. C. [4], 22, 281	vi., 964; vii., 1013
"	"	"	46.5	....	"	C. R., 72, 832	24, 809
"	"	"	46.48	....	Linnemann	A., 162, 39	vii., 203
"	"	"	46.36	....	"	A., 161, 26	25, 235; vii., 1013
"	"	"	46.44	....	"	"	"
"	"	"	44-46.5	....	Zander	A., 214, 157	
"	"	"	44	....	Brühl	A., 200, 139	38, 296
Tetrachlorocrotonylene	....	$\text{C}_4\text{H}_2\text{Cl}_4$	200	....	Judson	Z. C. [2], 7, 40	24, 234
"	....	"	130-140	Liquid	"	Z. C. [2], 7, 40	vii., 401
Pentachlorobutylene	....	$\text{C}_4\text{H}_3\text{Cl}_5$	185-188 (460)	Liquid	Loidl	B., 8, 1017	29, 365
Crotonylene dichloride	$\text{Me.CH}_2\text{CCl:CHCl}$	$\text{C}_4\text{H}_6\text{Cl}_2$	125	Liquid	Kekulé	Z. C. [2], 5, 572	vi., 513
"	"	"	125-127	Liquid	"	A., 162, 98, 309	vii., 401; 25, 616
Butine tetrachloride	....	$\text{C}_4\text{H}_6\text{Cl}_4$	....	73	....	B. S., 34, 195	
Trichlorobutyl chloride	....	"	85 (10)	Liquid	Thurnlackl	A., 213, 372	42, 1279
Chlorisobutylene	$\text{Me}_2\text{C:CHCl}$	$\text{C}_4\text{H}_7\text{Cl}$	66-70	....	(Economides	C. R., 92, 884	40, 709
"	"	"	65-68	....	"	"	40, 710
(?)	....	"	a. 100	....	Chancel	A. C. [3], 12, 416	i., 689
Ethylmethyl dichlormethane	$\text{CH}_3\text{CCl}_2\text{CH}_2\text{CH}_3$	$\text{C}_4\text{H}_8\text{Cl}_2$	95-97	....	Braylants	B., 8, 412	
Isobutylidene dichloride	....	"	103-105 p. d.	....	(Economides	C. R., 92, 884	40, 710
Butylene dichloride	....	"	120	....	De Luynes	....	v., 736
"	"	"	122.3	....	Kopp	A.	
"	"	"	123	....	Kolbe	A., 69, 275	v., 739

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts Dict. & J. Ch. Soc.
Butylene dichloride ....	....	$C_4H_8Cl_2$	125	....	Faraday	P. T., 182, 440	v., 739
" " ....	....	"	129	....	Puchot	A. C. [5], 28, 507	46, 167
" " ....	....	"	130-135	....	Wurtz	C. R., 97, 473	46, 169
Butyl chloride	$CH_3 \cdot CH_2 \cdot CH_2 \cdot CH_2Cl$	C_4H_9Cl	77.6 (741.3)	....	Lieben and Rossi	A., 158, 137	24,520; vii., 216
" "	"	"	77-96 c.	....	Linnemann	A., 162, 39	vii., 203
" "	"	"	77-96 c.	....	"	A., 161, 197	25, 396
" "	"	"	77-78	....	Pagliani	G. I., 8, 1	34, 654
" "	"	"	72	....	....	J. p. C. [2], 24, 118	
" "	"	"	abt. 70	....	Wurtz	A., 93, 113	v., 735
" "	"	"	70-75	....	"	J., 7, 572	
" "	"	"	70	....	Gerhard	A., 122, 363	vi., 108
" "	"	"	69	....	Pierre and Puchot	A. C. [4], 22, 310	
Isobutyl chloride	$CHMe_2 \cdot CH_2Cl$	"	69.6	....	" "	G. J. C., 1872	
" "	"	"	67-69	....	Linnemann	A., 162, 17	25, 476
" "	"	"	68.5 c.	....	"	"	"
" "	"	"	68.5-69 c.	....	Perkin	45, 451	
" "	"	"	65-70	....	Pelouze & Cahours	J., 16, 524	
" "	"	"	66.5-69	....	Freund	J. p. C. [2], 12, 25	29, 543
" "	"	"	60 (760)	....	Pierre and Puchot	C. R., 72, 832	24,809; vii., 218
Butyl chloride	$CClMe_3$	"	55	....	Puchot	A. C. [5], 28, 507	46, 167
" "	"	"	51-52 c.	....	Perkin	45, 451	
" "	"	"	50-53	....	Freund	J. p. C. [2], 12, 25	29, 543
" "	"	"	50-51	....	Zalessky	B., 5, 480	
" "	"	"	46-52	....	Linnemann	A., 162, 18	25,476; vii., 220
Chlornicene ....	....	C_5H_5Cl	292-294	....	St. Evre	J., 1, 530	
(l)	$C_5H_5Cl_2$ (?)	$C_5H_5Cl_2$ (?)	144-148	....	Pinner	B., 8, 1326	29, 554
Tetrachloramylene ....	....	$C_5H_6Cl_4$	a. 200	....	Barth	A., 119, 216	vi., 108
Trichloramylene ....	....	$C_5H_7Cl_3$	abt. 200	....	Bauer	J. [1860], 405	vi., 121
Dichloroamylene	$C_5H_6Cl_2$ (?)	$C_5H_6Cl_2$ (?)	144-148	....	Pinner	B., 8, 1326	29, 554
" " ....	....	"	146	....	"	B., 10, 1052	
Isoprene dichloride ....	....	"	145-153	....	Bouchardat	C. R., 89, 1117	38, 323
Tetrachlorpentane ....	....	$C_5H_8Cl_4$	220-230	Liquid	Bauer	Z. C. [1866], 380, 667	vi., 118, 120
" " ....	....	"	230-250 d.	....	"	J. [1860], 405	vi., 120
" " ....	....	"	230-240	....	"	C. R., 51, 572	vi., 116
Isoprene hydrochloride ....	....	C_5H_9Cl	86-91	....	Bouchardat	C. R., 89, 1117	38, 323
Chloramylene ....	....	"	90-95	....	Bauer	Z. C. [1866], 380, 667	vi., 118
" " ....	....	"	abt. 95	....	Friedel	A. C. [4], 16, 366	vii., 1022
" " ....	....	"	87	....	Bruylants	B., 8, 411	
Valerylene hydrochloride ....	....	"	abt. 100	....	Reboul	Z. C. [1867], 173	vi., 1123
Trichlorpentane ....	....	$C_5H_9Cl_3$	160-190	....	Bauer	Z. C. [1866], 380, 668	vi., 118
" " ....	....	"	185-190	....	Buff	J., 21, 334	
Isoamylidene chloride	$CHMe_2 \cdot CH_2 \cdot CHCl_2$	$C_5H_{10}Cl_2$	130	....	Ebersbach	A., 106, 265	vi., 120
" "	" "	"	128-130	....	Bruylants	B., 8, 413	
Dichloropentane	$Pr^a \cdot CCl_2 \cdot Me$	"	abt. 140	....	Friedel	A. C. [4], 16, 366	vii., 1022
" "	"	"	145	....	"	B., 8, 413	
Amylene dichloride ....	....	"	145	....	Bauer	Z. C. [1866], 380, 668	vii., 118
" " ....	....	"	141-147	....	Guthrie	14, 128	vii., 120
Pentine dihydrochloride	$C_5H_8 \cdot 2HCl$	"	145-150	....	Tilden	45, 414	
Valerylene dihydrochloride ....	....	"	150-152	....	Reboul	Z. C. [1867], 173	vi., 1123
Chloramyl chloride ....	....	"	155-160	....	Buff	A., 148, 350; J., 21, 333	
Amyl chloride	$Me \cdot (CH_2)_3 \cdot CH_2Cl$	$C_5H_{11}Cl$	106 (740)	....	Lieben and Rossi	G. I., 1, 314	vi., 1137
" "	"	"	106.6 (740)	....	" "	A., 159, 72	24, 1033
" "	"	"	112	....	Romborgh	R. T., 1, 151	44, 303
" "	"	"	106	Lachowicz	A., 220, 188	46, 166
" "	"	"	104	"	"	"
" "	$CHClEt_2$	"	103-105	Wagner & Saytzeff	A., 179, 321	29, 548

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Amyl chloride	CHClMePr ^a	C ₅ H ₁₁ Cl	103-105	Wagner & Saytzeff	A., 179, 321	29, 548
" " (inactive)	CHMe ₂ CH ₂ CH ₂ Cl	"	100.5	Plimpton	C. R., 91, 433	40, 33
" " "	"	"	100.5 chiefly	....	"	....	39, 332
" "	"	"	101	....	Schorlemmer	P. R. S., 15, 131	vi., 107
" "	"	"	100.9 c. (745.6)	....	Carius and Friès	A., 109, 1	vi., 110
" "	"	"	101.75 (752)	....	Pierre	J. [1851], 51	"
" "	"	"	100-102	....	Schorlemmer	P. T. [1872], 111	vii., 63
" "	"	"	100	....	Lachowicz	A., 220, 188	46, 166
" "	"	"	100	....	Plimpton & Graves	43, 123	
" "	"	"	102	....	Cahours	J. P., 22, 172	i., 203
" "	"	"	100-101	....	Balard	A. C. [3], 12, 300	"
" "	"	"	100.6-101	....	Kopp	A., 95, 337	
" "	"	"	98-103	....	Pelouze & Cahours	J., 16, 524	
" "	"	"	102	....	Schorlemmer	28, 308	
" "	"	"	98.9 (733.8)	....	Balbiano	G. I., 6, 229	31, 293
" "	"	"	97-99 c.	....	Perkin	45, 452	
" " ....	....	"	95-100	....	Schorlemmer	P. T. [1872], 111	vii., 63
" "	Primary, active	"	97-99	....	....	B. S., 25, 546	
" "	Iso-	"	90	....	Wurtz	J., 16, 516	
" "	CHClMePr ^b	"	abt. 90	....	Berthelot	C. R., 56, 700	vi., 114
" "	"	"	86-87	....	Butlerow	B., 10, 408	32, 589
" "	CClEtMe ₂	"	86	....	Wischnegradsky	B., 10, 405	32, 420
" "	"	"	85-87	....	"	A., 190, 336	34, 394
" "	"	"	86-87	Liquid	Winsgradow	A., 191, 131	34, 484
" "	"	"	85-86.5	....	Perkin	45, 452	
" " ....	....	"	85-86	....	Flawitzky	B., 6, 562	26, 1014
" " ....	....	"	85-86	....	"	A., 169, 205	27, 139
Pentachlorbenzene ....	....	C ₆ HCl ₅	275	....	Jungfleisch	B. S. [2], 9, 346	vi., 264
" " ....	....	" (?)	....	175-198 (?)	"	....	26, 167
" " ....	....	"	270	....	"	Z. C. [2], 4, 484;	
" " (a) ....	....	"	272	74	"	J., 20, 36	
" " ....	....	"	....	85	Otto	A. C. [2], 15, 186	vi., 266; vii., 141
" " ....	....	"	....	85	"	Z. C. [2], 6, 36	vi., 264
" " ....	....	"	....	85	"	A., 154, 182	vii., 142
" " ....	....	"	275-277	85-86	Ladenburg	B., 5, 790	26, 167; vii., 142
" " ....	....	"	....	175	Jungfleisch	J. [1868], 357	vi., 266
" " (β) (?) ....	....	" (?)	....	175	"	A. C. [4], 15, 186	vii., 141
" " (β) (?) ....	....	" (?)	....	198-199	Otto	A., 154, 182	vii., 141, 142
Tetrachlorbenzene	Cl ₄ = (?)	C ₆ H ₂ Cl ₄	245	....	Jungfleisch	B. S. [2], 9, 346	vi., 264
" "	" = 1.2.4.5	"	240-250	139	Beilstein and Kuhlberg	Z. C. [2], 5, 529	vi., 284
" "	" "	"	240	139	Jungfleisch	A. C. [4], 15, 277	vi., 266; vii., 141
" "	" "	"	243-246 c.	137-138	Beilstein and Kurbatow	B., 9, 579	30, 294
" "	" "	"	243-246	137-138	" "	B., 10, 270	31, 707
" "	" = 1.3.4.5	"	246 c.	50-51	" "	B., 9, 579	30, 294
" "	" "	"	246 c.	50-51	" "	B., 10, 273; A., 192, 237	31, 707
" " ....	" "	"	....	50-51	" "	B., 11, 1862	36, 144
" " (impure)	" "	"	253	35	Otto and Ostrop	A., 141, 105	vi., 266
" "	" "	"	253	35	Jungfleisch	A. C. [4], 15, 186	vii., 141
" "	" "	"	...	33	Otto	A.	
" "	" "	"	245-248	27-28	Ladenburg	B., 5, 790	26, 167; vii., 142
" "	" = 1.2.3.4	"	254	45	Beilstein and Kurbatow	B., 9, 1688	31, 474
" "	" "	"	254 c.	45-46	" "	B., 10, 273; A., 192, 238	31, 707

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Tetrachlorbenzene $\text{Cl}_4 = 1.2.3.4$	$\text{C}_6\text{H}_2\text{Cl}_4$	42	Benedikt	M. C., 4, 232	44, 986
Trichlorbenzene $\text{Cl}_3 = 1.3.5$	$\text{C}_6\text{H}_3\text{Cl}_3$	60	Jungfleisch	A. C. [4], 15, 264	vi., 266; vii., 141
"	.... " "	"	....	63.4	Körner	G. I., 4, 305	29, 224
"	.... " "	"	208.2 c. (763.8)	63.5	Beilstein and Kurbatow	B., 8, 1655	29, 713
"	.... " "	"	208.5 c. (763.8)	63.5	" "	B., 10, 271; A., 192, 232	31, 706
"	.... " "	"	....	63-64	Wenghöffer	J. p., 2 [16], 448	34, 297
"	.... " = 1.2.3	"	218-219	53-54	Beilstein and Kurbatow	B., 9, 1688	31, 474
"	.... " "	"	218-219	53-54	" "	B., 10, 272; A., 192, 234	31, 707
"	.... " = 1.3.4	"	206	16-17	Jungfleisch	A. C. [4], 15, 186	vi., 266; vii., 141
"	.... " "	"	213 c.	16	Beilstein and Kurbatow	B., 8, 693	28, 1037
"	.... " "	"	213 c.	16	" "	B., 10, 270; A., 192, 229	31, 706
"	.... " = (?)	"	210	b. 0	Mitscherlich	P. A., 35, 372	vi., 266
"	.... " = (?)	"	207	s. b. 0	Heys	Z. C. [2], 3, 122	24, 1028
"	.... " = (?)	"	210	Liquid	Laurent	A. C. [2], 63, 27	i., 543
"	.... " = (?)	"	210	....	Jungfleisch	B. S. [2], 9, 346	vi., 264
Dichlorbenzene	.... $\text{Cl}_2 = 1.4$	$\text{C}_6\text{H}_4\text{Cl}_2$	....	52-821	Mills	P. R. S. [1881], 205	
"	.... " "	"	....	53-54	Kekule & Barbaglia	B., 5, 875	28, 278
"	.... " "	"	172	....	Müller	Z. C. [1864], 401	vi., 265
"	.... " "	"	....	53	Petersen	A., 157, 171	24, 249
"	.... " "	"	171	53	Jungfleisch	A. C. [4], 15, 186	vi., 265; vii., 141
"	.... " "	"	173-174	53-54	Kekulé	B., 6, 944	vii., 918
"	.... " "	"	....	53	Beilstein and Kurbatow	B., 7, 487	27, 806
"	.... " "	"	172	53	" "	B., 7, 1397	28, 363; vii., 905
"	.... " "	"	172-174	53	Nölting	B., 8, 1091	29, 81
"	.... " "	"	172	53	"	B., 8, 819	29, 928
"	.... " "	"	173.4 (757.6)	56.4	Körner	G. I., 4, 305	29, 215
"	.... " = 1.3	"	172	....	Beilstein and Kurbatow	B., 7, 1760	28, 450
"	.... " "	"	172	....	" "	A., 182, 94	30, 631
"	.... " "	"	172-173	....	" "	B. S., 23, 179	
"	.... " "	"	172.1 (742.4)	Liquid	Körner	G. I., 4, 305	29, 215
"	.... " "	"	170-171	....	Witt	B., 7, 1602	28, 759
"	.... " = 1.2	"	179	1. - 19	Beilstein & Kurbatow	B., 7, 488	27, 806
"	.... " "	"	179 c.	1. - 14	" "	B., 7, 1398	28, 364; vii., 906
"	.... " "	"	179	....	" "	B., 7, 1760	28, 450
"	.... " "	"	179	....	" "	A., 182, 94	30, 631
"	.... " "	"	179	Liquid	Körner	G. I., 4, 305	29, 233
"	.... " = (?)	"	abt. 175	....	Jungfleisch	B. S. [2], 9, 346	vi., 264
"	.... " = (?)	"	175	b. 0	"	A. C. [4], 15, 186	vi., 266; vii., 141
" hexachloride	$\text{C}_6\text{H}_4\text{Cl}_2\text{Cl}_6$	$\text{C}_6\text{H}_4\text{Cl}_8$	....	(?)	"	Z. C. [2], 4, 484	vi., 264
"	"	"	....	255-257	Otto	Z. C. [2], 6, 36	vi., 264
"	"	"	....	255-257	Otto and Ostrop	A., 141, 105	
Chlorbenzene	.... $\text{C}_6\text{H}_5\text{Cl}$	$\text{C}_6\text{H}_5\text{Cl}$	137	....	Riche	A., 121, 357	iv., 415
"	.... " "	"	136	....	Williamson and Scrugham	7, 238	"
"	.... " "	"	136 (767)	....	Sokoloff	J., 18, 517	vi., 265
" " "	"	132.4-132.6	"	"	28, 886
" " "	"	131	- 40	Jungfleisch	A. C. [4], 15, 212	vii., 140
" " "	"	131.5-131.97 (760)	.	Adrien	B. 6, 443	28, 886

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Chlorbenzene	C_6H_5Cl	C_6H_5Cl	132.4-132.58 (760)	Adrienz	B., 6, 443	26, 886
"	"	"	131.4-132 (744)	Brühl	A., 200, 139	38, 296
"	"	"	134.5-135	....	Ramsay	....	39, 64
(?)	....	$C_6H_5Cl_3$	....	218	Kurbatow	B., 16, 966	
Chlorbenzene hexachloride	$C_6H_5Cl.Cl_6$	$C_6H_5Cl_7$ (?)	....	255-257	Otto and Ostrop	A., 141, 105	vi., 264
Chloralbin	....	$C_6H_5Cl_2$	190	Solid	Laurent	R. S., 6, 72	i., 883
Benzene hexachloride	....	$C_6H_6Cl_6$	288	132	Mitscherlich	P. A., 35, 374	i., 543; vii., 132
"	"	"	....	135-140	Laurent	A. C., 63, 27	"
"	"	"	....	157	Heys	Z. C. [2], 7, 293	"
"	"	"	....	157	"	Z. C. [2], 3, 122	24, 1028
"	"	$(C_6H_6Cl_6)_n$	....	300	Meunier	C. R., 98, 436	46, 733
Quercite pentachlorhydrin	....	$C_6H_7Cl_5$	....	102	Prunier	C. R., 86, 338; A. C. [5], 15, 5	34, 400; 36, 241
Hexachlorhexane	....	$C_6H_8Cl_6$	285-290	....	Pelouze & Cahours	J., 16, 525	
Mesityl chloride	$C_6H_{10}Cl_2$ (?)	C_6H_9Cl	130	....	Baeyer	A., 140, 298	vi., 822
Chlordiallyl	....	"	150	Liquid	Henry	C. R., 87, 171	36, 34
Allylmethylchloracetol	$C_3H_6.CH_2.C.Cl_2.Me$	$C_6H_{10}Cl_2$	150 p.d.	Liquid	"	"	"
Diallylhydrochloride	....	$C_6H_{11}Cl$	130-140	....	Wurtz	J. [1864], 514	vi., 93
Chlorhexylene	....	"	122 (768)	Liquid	Henry	C. R., 97, 260	46, 34
"	$Me_2.CCl.CH_2CH:CH_2$	"	109-114	....	Michael & Saytzeff	A., 185, 156	32, 299
"	....	"	70-71	Liquid	Destrem	A. C. [5], 27, 5	B., 16, 229
Trichlorhexane	....	$C_6H_{11}Cl_3$	215-218	....	Pelouze & Cahours	J., 16, 525	
Diallyl dihydrochloride	....	$C_6H_{12}Cl_2$	170-180	....	Wurtz	J. [1864], 512	vi., 93
Hexylene dichloride	....	"	abt. 160	....	Friedel	Z. C. [2], 5, 485	vi., 946
"	....	"	162-165(764)	Liquid	Henry	C. R., 97, 260	46, 34
"	....	"	180-184	....	Pelouze & Cahours	J. 16, 525	
"	$Me_2.CCl.CCl.Me_2$	"	....	160	Friedel and Silva	B., 6, 35	
"	"	....	....	160	Schorlemmer	A., 144, 187	
Hexyl chloride	$Me.(CH_2)_4CH_2Cl$	$C_6H_{13}Cl$	abt. 133	....	Lieben & Janecek	A., 187, 139	32, 881
"	"	"	abt. 130	....	Freutzel	B., 16, 745	44, 1075
"	"	"	125-130	....	Geibel and Buff	Z. C. [2], 4, 179	vi., 699
"	"	"	125-130	....	Buff	Z. C. [2], 4, 730	
"	"	"	125-128	....	Cahours & Demarçay	C. R., 80, 1570	
"	"	"	125-128	....	Pelouze and Cahours	J., 16, 525	
"	β -	"	120-130	....	Wanklyn & Erlenmeyer	J., 17, 509	16, 221
"	"	"	126-130	....	Schorlemmer	P. T. [1872], 111	vii., 645
"	"	"	125-126	....	"	"	"
"	"	"	125-126	....	....	A., 161, 272; J., [1864], 509	
"	"	"	124-125	....	....	A., 199, 141	
"	$Me.CHCl.(CH_2)_3Me$	"	124	....	Schorlemmer	A., 199, 139	38, 158
"	"	"	122-124	....	Morgan	....	28, 303
"	"	"	123.5	....	....	M. C., 2, 313	
"	β -	"	abt. 120	....	Wanklyn & Erlenmeyer	16, 221	iii., 153
"	From $Pr^{\beta}.Pr^{\beta}$	"	124	....	Silva	B., 7, 953	
"	"	"	118	....	"	"
"	"	"	122	....	Schorlemmer	A., 144, 186; J., 20, 567	
"	"	"	122-124	....	Le Bel	B., 5, 216; B. S., 18, 167	
"	"	"	121-122	....	"	C. R., 75, 267	25, 886
"	"	"	116-118	Morgan	28, 302
"	β -	"	116-118	A., 177, 305	
"	"	"	115-117	Le Bel	B., 5, 216; B. S., 18, 167	
"	"	"	111-113	"	C. R., 75, 267	25, 886

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Hexyl chloride	$\text{CClMe}_2\text{CHMe}_2$	$\text{C}_6\text{H}_{13}\text{Cl}$	112.5-114.5	Friedel and Silva	C. R., 76, 226	26, 489; vii., 982
" "	"	"	112	....	Eltekow	J. R. [1882], 1, 355; B., 16, 399	
" "	"	"	abt. 112	s. -2	Kaschirsky	B., 11, 984	36, 46
" "	"	"	110-112	s. -2	"	C. C. [1881], 278	42, 37
" "	"	"	115	....	Fernbach	B. S. [2], 34, 146	40, 146
" "	"	"	112	s. -14	Pawlow	B., 11, 513	34, 563
" "	CClMeEt_2	"	110 d.	l. f. m.	Butlerow	B. S. [2], 5, 24	vi., 698
" "	CClMe_2Pr	"	100 d.	l. f. m.	"	"	"
Tetrachlorbenzo-trichloride	$\text{C}_6\text{HCl}_4\text{CCl}_3$	C_7HCl_7	316 p. d.	104	Beilstein and Kuhlberg	A., 150, 308	vi., 284
Pentachlorbenzyl chloride	$\text{C}_6\text{Cl}_5\text{CHCl}_2$	"	334	110	"	A., 150, 306	"
Pentachlorbenzyl chloride	$\text{C}_6\text{Cl}_5\text{CH}_2\text{Cl}$	$\text{C}_7\text{H}_2\text{Cl}_6$	abt. 325	108	"	Z. C. [2], 4, 561	vi., 283
" "	"	"	325-327	103	"	A., 150, 302	"
Tetrachlorbenzyl chloride	$\text{C}_6\text{HCl}_4\text{CHCl}_2$	"	306	Liquid	"	"	"
" "	"	"	305-306	....	"	Z. C., 21, 364; A., 150, 303	
Trichlorbenzo-trichloride	$\text{C}_6\text{H}_2\text{Cl}_3\text{CCl}_3$	"	298	82	"	Z. C. [2], 4, 561	vi., 283
" "	"	"	307-308	82	"	A., 150, 305	
Pentachlortoluene	$\text{C}_6\text{Cl}_5\text{CH}_3$	$\text{C}_7\text{H}_3\text{Cl}_5$	301	218	"	Z. C. [2], 4, 277	vi., 283
Tetrachlorbenzyl chloride	$\text{C}_6\text{HCl}_4\text{CH}_2\text{Cl}$	"	296	Liquid	"	A., 150, 299	"
" "	"	"	296-297	....	"	Z. C., 21, 362	
Trichlorbenzyl chloride	$\text{C}_6\text{H}_2\text{Cl}_3\text{CHCl}_2$	"	285	Liquid	"	Z. C. [2], 4, 277	vi., 283
" "	"	"	280-281	s. 0	"	Z. C., 21, 362; A., 150, 299	
Dichlorbenzo-trichloride	$\text{C}_6\text{H}_3\text{Cl}_2\text{CCl}_3$	"	277	Liquid	"	Z. C. [2], 4, 277	vi., 283
" "	"	"	273	....	"	Z. C., 21, 363; A., 150, 300	
" "	"	"	273	....	Aronheim and Dietrich	B., 8, 1403	
Tetrachlortoluene	$\text{C}_6\text{HCl}_4\text{CH}_3$	$\text{C}_7\text{H}_4\text{Cl}_4$	276	96	Limpricht	A.	v., 856
" "	"	"	276.5 c.	96	Beilstein and Kuhlberg	A., 150, 287; A., 139, 287	
" "	"	"	270	92-95	"	Z. C., 11, 276	vi., 282
" "	"	"	255	....	Limpricht	J., 19, 595	
" " (isomeric)	"	"	280-290	....	"	A., 142, 305	
Trichlorbenzyl chloride	$\text{C}_6\text{H}_2\text{Cl}_3\text{CH}_2\text{Cl}$	"	273	Liquid	Beilstein and Kuhlberg	A., 150, 290	vi., 282
o-Dichlorbenzyl chloride	$\text{C}_6\text{H}_3\text{Cl}_2\text{CHCl}_2$	"	257	Liquid	"	A., 150, 294	
Chlorbenzo-trichloride	$\text{C}_6\text{H}_4\text{ClCCl}_3=1.4$	"	245	Liquid	"	A., 150, 295	"
" "	" =1.3	"	250	l. 0	Limpricht	A., 139, 326	v., 856
" "	" "	"	244-246	....	"	A., 134, 58	
" "	" "	"	246-248	....	"	"
" " ....	" "	"	(?)	....	Kämmerer and Carius	A., 131, 158	
" " ....	" "	"	(?)	....	Cahours	As., 2, 254	
" "	" =1.2	"	260	30	Kolbe & Lautemann	A., 115, 195	v., 856
Trichlortoluene	$\text{C}_6\text{H}_2\text{MeCl}_3=1.2.4.6$	$\text{C}_7\text{H}_5\text{Cl}_3$	235	73	Aronheim & Dietrich	B., 8, 1405	29, 392
" "	" "	"	237	75-76	Limpricht	A., 139, 326	vi., 282
" "	" "	"	(?)	(?)	Beilstein and Kuhlberg	A., 146, 325	
" "	" =?	"	237	Liquid	Aronheim and Dietrich	B., 8, 1405	29, 392
" "	" =?	"	227-228	....	Henry	J., 22, 508	
Dichlorbenzyl chloride	$\text{C}_6\text{H}_3\text{Cl}_2\text{CH}_2\text{Cl}$	"	240 p.d. (760); 135-145 (10)	Naquet	As., 2, 248	v., 855
" "	"	"	241	Beilstein and Kuhlberg	A., 146, 327	vi., 282
" "	"	"	241	Limpricht	A., 139, 326	

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Chlorbenzylene dichloride	$C_6H_4Cl.CHCl_2 = 1.4$	$C_7H_5Cl_3$	234	Beilstein and Kuhlberg	A., 146, 327	vi., 281
" "	" "	"	255-260	....	Hübner and Bente	B., 6, 804	
" "	" = 1.2	"	227-230	....	Henry	B., 2, 136	vi., 282
Benzo-trichloride	$C_6H_5.CCl_3$	"	215-218	Liquid	....	....	v., 856
" "	"	"	213-214	Liquid	Beilstein and Kuhlberg	A., 146, 333	vi., 282
" "	"	"	224	....	Limpricht	A., 135, 80 ; 139 323 ; J., 19, 594	
" "	"	"	216-218	....	"	A., 134, 55 ; J., 18, 539	
" " ....	"	"	(?)	....	Schischkoff & Rosing	J. [1858], 279	
" " ....	"	"	(?)	....	Cahours	As., 2, 306	
D chlortoluene	$C_6H_5.MeCl_2 = 1.3.4$	$C_7H_6Cl_2$	196	Liquid	Beilstein & Geitner	A., 139, 341	vi., 281
" "	" "	"	197-199	Liquid	Neuhof	Z. C. [2], 2, 653	"
" "	" "	"	196-198	....	Aronheim and Deitrich	B., 8, 1402	29, 392
" "	" = (?)	"	202	....	Beilstein	J., 13, 412	
" "	" = (?)	"	195-200	....	Wroblewsky and Pirogow	Z. C. [2], 6, 164	vii., 1167, 1177
" "	" = (?)	"	206	....	Wicke	A., 102, 356	
" "	" = (?)	"	207	....	Limpricht	J., 19, 593	
Chlorbenzyl chloride	$C_6H_4.Cl.CH_2Cl = 1.4$	"	....	29	Jackson and Field	B., 11, 904	36, 62
" " ....	" "	"	....	29	" "	A. C. J. [2], 85	40, 803
" "	" "	"	213-214	29	Beilstein and Kuhlberg	A., 147, 352	
" " ....	" = (?)	"	....	Liquid	Beilstein and Geitner	Z. C., 66, 307	40, 806
" "	" = (?)	"	s. b. 200	Liquid	Beilstein	A., 116, 336	v., 855
" "	" = (?)	"	212-214	Liquid	Neuhof	Z. C. [2], 2, 653	vi., 281
Benzylene dichloride	$C_6H_5.CHCl_2$	"	206-208	....	Wicke	A., 102, 356	i., 577
" "	"	"	206	....	Cahours	A. C. [3], 23, 129	v., 855
" "	"	"	212-214 c.	....	Hübner and Bente	B., 6, 804	
Dichlortoluene hexachloride	$C_6H_5.MeCl_2.Cl_6$	$C_7H_6Cl_8$	....	150	....	A., 142, 305	
Chlortoluene	$C_6H_4.Me.Cl = 1.4$	C_7H_7Cl	160.5	6.5	Hübner and Majert	B., 6, 794	26, 1136
" "	" "	"	158-161	....	Aronheim and Deitrich	B., 8, 1402	29, 392
" "	" "	"	157-158	....	Beilstein & Geitner	A., 139, 334	v., 854
" "	" = 1.3	"	156	....	Wroblewsky	A., 168, 199	27, 55
" "	" = 1.2	"	156	Liquid	"	Z. C. [2], 5, 460	vi., 281
" "	" "	"	157	....	....	A., 156, 79	
" "	" = (?)	"	164 c.	....	Limpricht	B.S. [1866], 2, 467	v., 854
" "	"	"	197	....	....	....	ii., 107
Benzyl chloride	$C_6H_5.CH_2Cl$	"	170	Liquid	Deville	A. C. [3], 3, 178	i., 573
" "	"	"	176	Liquid	Cannizzaro	A., 88, 129	i., 573 ; v., 854
" "	"	"	183	....	Limpricht	A., 139, 307, 337	v., 854
" "	"	"	174 (769)	....	Schiff	G. J. C., 1881	
" "	"	"	175	....	Letts	....	25, 447
" "	"	"	172-180	....	Frankland & Tompkins	....	37, 566
" "	"	"	176	....	Ramsay	....	39, 64
" " (?)	"	"	227-230	....	Spica	G. I., 9, 555	38, 241
Diallyl carbinol chloride	$(CH_2:CH.CH_2)_2CHCl$	$C_7H_{11}Cl$	140-145 d.	....	Saytzeff	A., 185, 141	32, 298
Chlorheptylene	From $Pr^{\beta}.CO.Pr^{\beta}$	$C_7H_{13}Cl$	116	Liquid	Chancel	....	i., 698
" "	" "	"	118-120	Liquid	Henry	B., 8, 400	
" "	" $Pr^{\alpha}.CO.Pr^{\alpha}$	"	141	....	Tawildarow	B., 9, 1442	
" "	"	"	155 c.	Liquid	Limpricht	A., 103, 83	iii., 148
Heptylene dichloride	From $Pr^{\alpha}.CO.Pr^{\alpha}$	$C_7H_{14}Cl_2$	181	....	Tawildarow	B., 9, 1442	
" "	"	"	190	....	Schorlenumer	16, 426	iii., 144
" "	"	"	191 c.	....	Limpricht	A., 103, 81	iii., 148
Heptyl chloride	$Me.(CH_2)_5.CH_2Cl$	$C_7H_{15}Cl$	159.2 (754)	Liquid	Cross	A., 189, 3	32, 125
" "	"	"	175	....	Petersen	A., 118, 74	iii., 144

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Heptyl chloride	.....	$C_7H_{15}Cl$	151-153	.....	Schorlemmer	P. R., 14, 164 & 464	vi., 696
" "	.....	"	150	.....	"	16, 426	iii., 144
" "	.....	"	148-152	.....	Pelouze & Cahours	J., 15, 386	
" "	.....	"	140-142	.....	Schorlemmer	A., 166, 172	
" "	.....	"	149-150	.....	"	.....	26, 323
" "	.....	"	149	.....	"	P. R., 14, 164 & 464	vi., 696
" "	.....	"	146-148	.....	"	"	"
" "	.....	"	138-142 p. d.	.....	Morgan	.....	26, 304
" "	.....	"	135-138 (757)	1. - 15	Kaschirsky	C. C. [1881], 278	42, 37
" "	.....	"	135-138	.....	"	B., 11, 984	36, 46
" "	.....	"	134-137	.....	Grimshaw	.....	26, 323
" "	..... Secondary	"	98	.....	.....	A., 136, 266; 217, 152; J. [1863], 528	
" "	..... From $CHMe_2(CH_2)_3.Me$	"	140-150	.....	Grimshaw	A., 166, 166	26, 312
" "	..... " "	"	144-158	.....	Schorlemmer	A., 166, 173	26, 320; vii., 643
" "	..... $CHClMe(CH_2CH_2Pr^2)$	"	135-137	Liquid	Rohu	A., 190, 312	34, 486
" "	..... $CClMe_2.CMe_3$	"	.....	130	Eltekow	J. R. [1882], 1, 355; B., 16, 399	
" "	..... " "	"	.....	134	.....	A., 209, 81	
" "	..... " "	"	.....	135	Kaschirsky	C. C. [1881], 278	42, 37
" "	..... " "	"	.....	136	Butlerow	A., 177, 183	28, 1249
Dichlorstyrolene	..... $Ph.CCl:CHCl$	$C_8H_6Cl_2$	221 u. c.	Liquid	Dyckerhoff	B., 10, 531	32, 482
" "	..... " "	"	225-231	Liquid	"	B., 10, 121	
α -Chlorstyrolene	..... $Ph.CH:CHCl$	C_8H_7Cl	(?)	.....	Blyth & Hofmann	A., 53, 310; J. [1868], 411	
β - " " $Ph.CCl:CH_2$	"	199-204 (766) 112 (40)	.....	Glaser	A., 154, 166	vii., 1101
Trichlorxylene	..... $C_6HMe_2Cl_2=1.3.(?)_3$	$C_8H_7Cl_3$	254-256	.....	Hollemann	J., 18, 557	v., 1057
Dichlorxylene	..... $C_6H_2Me_2Cl_2=1.3.(?)_2$	$C_8H_8Cl_2$	222	Ht. of hand	"	"	"
" "	..... " = (?)	"	240-245	100	Lauth and Grimaux	A., 145, 115	"
Tolylene dichloride	..... $C_6H_4(CH_2Cl)_2=1.2$	"	.....	54-8	Colson	C. R., 98, 1543	46, 1000
" "	..... " = 1.4	"	240-245 d.	100	Grimaux	A. C. [4], 26, 331	25, 817
" "	..... " "	"	230	100	Biedermann	B., 5, 702	25, 1013
" "	..... " "	"	225 d.	103	Raymann	B. S., 26, 534	46, 1000
α -Phenylethyl chloride	..... $C_6H_5.CHCl.CH_3$	C_8H_9Cl	194 p. d.	Liquid	Engler and Bethge	B., 7, 1127	26, 65
" "	..... " "	"	abt. 194	Liquid	Emmerling & Engler	B., 6, 1005	vii., 936
β - " " $C_6H_5.CH_2.CH_2Cl$	"	200-204 d.	Liquid	Fittig	A., 156, 246	
Tolyl chloride	..... $C_6H_4Me.CH_2Cl=1.2$	"	197-199	.....	.....	B. S., 26, 534; 27, 498	
" "	..... " = 1.3	"	195-196	.....	.....	B. S., 26, 43	
" "	..... " = 1.4	"	192	.....	.....	Z. C. [1867], 381	
" "	..... " = (?)	"	193	.....	Vollrath	Z. C. [2], 488	v., 870, 1057
" "	..... " "	"	190-195	.....	Lauth and Grimaux	A., 145, 115	"
" "	..... " "	"	192-196	.....	Phillipe & Barbier	A. C. [5], 7, 472	31, 76
" "	..... " "	"	190-200	.....	Van Dorp	B., 5, 675	25, 1006
" "	..... " "	"	190-195	.....	Mazzara	G. I., 9, 421	38, 161
Chlorxylene	..... $C_6H_3Me_2Cl=1.3.(?)$	"	183-184	.....	.....	Z. C. [1866], 488	
Octylene dichloride	.....	$C_8H_{16}Cl_2$	abt. 235 d.	.....	Thorpe and Young	A., 165, 16; B., 5, 558	vii., 892; 25, 803
" "	.....	"	206-210	.....	Nieson	.....	27, 847
" "	..... From caprylene	"	197-200	.....	.....	A., 106, 271	
" "	..... " $Me.CO.C_6H_{13}$	"	190-200	.....	.....	"
Octyl chloride	..... $CH_3.(CH_2)_6.CH_2Cl$	$C_8H_{17}Cl$	182-5-183-5 c.	.....	Perkin	45, 453	
" "	..... " "	"	182	.....	Cahours & Demarçay	C. R., 80, 1571	
" "	..... " "	"	179-5-180-5	.....	Zincké	A., 152, 4	vi., 878
" "	..... " "	"	175	.....	Bouis	A. C. [3], 64, 128	iv., 170
" "	..... Secondary	"	171-173 c.	.....	Perkin	45, 453	
" "	.....	"	170-172	.....	Schorlemmer	15, 419	iv., 170
" "	.....	"	168-172	.....	Pelouze & Cahours	A., 129, 91	"
" "	.....	"	162-167	.....	Wurtz	J., 16, 509	"
" "	.....	"	168-174	.....	Nieson	.....	27, 848
" "	..... $CHClMe.C_6H_{13}$	"	173-176	.....	Schorlemmer	P. R., 16, 376	vi., 879

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Octyl chloride	CHClEt.C ₆ H ₁₁	C ₈ H ₁₇ Cl	174-176	....	Schorlemmer	A., 152, 152	vi., 879
"	From CHMe ₂ (CH ₂) ₂ CHMe ₂	"	170-180	....	"	P. R. [1876], 34	31, 541
"	" C ₅ H ₁₁ .Pr ⁸	"	165	....	"	P. R., 16, 37	vi., 105
"	CClEt ₂ Pr ^a	"	155	....	Butlerow	B. S. [2], 5, 24	vi., 880
"	From CHMe ₂ (CH ₂) ₂ CHMe ₂	"	145-150 p. d.	....	"	A., 189, 52	34, 122
Styryl chloride	....	C ₉ H ₉ Cl	....	b.-19	Ramdohr	Z. C. [1858], 113	v., 447
Mesitylene trichloride	C ₆ H ₃ (CH ₂ Cl) ₃ =1.3.5	C ₉ H ₉ Cl ₃	170-180 i.v.; 277-284 (760) p. d.	Liquid	Colson	C. R., 97, 177	46, 57
Trichlormesitylene	Me ₃ .Cl ₃ =1.3.5.2.4.6	"	....	204	Fittig & Hoogewerff	Z. C. [2], 5, 168	vi., 299
"	"	"	....	208	Kurbatow	B., 16, 966	
Dichlorumene (?)	....	C ₉ H ₁₀ Cl ₂	265	....	Lallemand	A., 102, 119	v., 795
Mesitylene dichloride	Me.(CH ₂ Cl) ₂ =1.3.5	"	....	41.5	Robinet and Colson	C. R., 96, 1863	44, 1095
"	"	"	260-265	41.5	Robinet	C. R., 96, 500	44, 577
Dichlormesitylene	Me ₃ .Cl ₂ =1.3.5.2.4	"	243	59	Kahn	"	"
"	"	"	244	59	Fittig & Hoogewerff	Z. C. [2], 5, 168	vi., 299
Chlormesitylene	C ₆ H ₂ Me ₃ .Cl=1.3.5.6	C ₉ H ₁₁ Cl	205	....	"	"	"
"	"	"	204-206	....	Robinet	C. R., 96, 500	44, 577
Mesityl chloride	C ₆ H ₃ .Me ₂ .CH ₂ Cl=1.3.5	"	215-220	1. -17	"	"	"
Camphryl chloride	....	C ₉ H ₁₃ Cl	205	....	Schwanert	A., 123, 310	vi., 390
Camphoryl chloride	....	"	175	....	"	"	"
Isophoryl chloride	....	"	175	....	Liès-Bodart	C. R., 43, 394	i., 733
Chlornonylene	....	C ₉ H ₁₇ Cl	175-185	....	Diew	B., 16, 961	
Nonylene dichloride	....	C ₉ H ₁₈ Cl ₂	240-245	....	....	A., 165, 21	
Nonyl chloride	....	C ₉ H ₁₉ Cl	190-198	....	Thorpe and Young	"	
"	....	"	196	....	Pelouze and Cahours	J., 16, 529	iv., 134
"	....	"	150-160	....	....	Z. C. [1870], 404	
Heptachlornaphthalene	....	C ₁₀ HCl ₇	....	154	Claus and Lippe	B., 16, 1019	44, 921
Hexachlornaphthalene	....	C ₁₀ H ₂ Cl ₆	....	143	Beilstein	Org. Chem.	iv., 13
α-Pentachlornaphthalene	α ₁ α ₂ β ₁ β ₂ ; α ₁	C ₁₀ H ₃ Cl ₅	....	168.5	Græbe	A., 169, 8	vi., 847
α-	"	"	....	168.5	Claus and Lippe	B., 16, 1017	
α-	"	"	....	168.5	Widmann	B. S. [2], 28, 505	32, 901
β-	Cl ₃ ; Cl ₂	"	....	177	Atterberg and Widmann	B. S. [2], 27, 513	"
β-	"	"	....	177	"	B., 10, 1843	34, 322
α-Tetrachlornaphthalene	....	C ₁₀ H ₄ Cl ₄	....	106	Laurent	....	iv., 12
β-	....	"	....	125	"	....	"
κ-	....	"	....	125	"	....	"
α-	Cl ₂ ; Cl ₂	"	....	130	Faust and Saame	A., 160, 72	25, 65; vi., 847
α-	"	"	....	130	Widmann	B. S., 28, 511	32, 901
δ-	"	"	....	141	"	"	"
δ-	"	"	....	141	Atterberg and Widmann	B., 10, 1842	34, 322
θ-	....	"	....	156-158	Faust and Saame	Z. C. [2], 5, 705	vi., 847
θ-	Cl; Cl	"	....	159.5-160.5	Alén	B. S. [2], 36, 433	42, 410
ε-	....	"	....	170	Laurent	....	iv., 12
γ-	....	"	....	176	Widmann	B. S. [2], 28, 512	32, 901
ε-	....	"	....	180	Grimaux	B. S. [2], 18, 205	26, 69
ε-	....	"	....	180	Widmann	B. S. [2], 28, 508	32, 901
ε-	....	"	....	180	Atterberg and Widmann	B., 10, 1844	34, 322
β-	....	"	....	194	Atterberg	B., 9, 318	29, 915
β-	....	"	....	194	Widmann	B. S. [2], 28, 505	32, 901
ζ-Trichlornaphthalene	β. ?; β ₁	C ₁₀ H ₅ Cl ₃	....	56	"	B., 12, 962	36, 723
ε-	β	"	....	65	Cleve	B. S. [2], 29, 500	34, 736
ε-	β	"	....	65	"	B., 12, 1714	36, 47
ac-	....	"	....	66	Laurent	....	iv., 12
g-	....	"	....	69	"	....	"
a-	....	"	....	75	"	....	"
c-	....	"	....	79	"	....	"
a-	α ₁ β ₁ β ₂;	"	....	81	Faust and Saame	A., 160, 71	25, 65; vi., 847
a-	"	"	....	81	Widmann	B. S., 28, 511	36, 723

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
d-Trichlornaphthalene	....	$C_{10}H_5Cl_3$	....	89	Laurent	....	iv., 12
β-	.... a	"	a. 305	90	Atterberg	B., 9, 926	30, 516
β-	.... a	"	....	90	Widmann	B. S. [2], 28, 505	32, 901
ae-	....	"	....	93	Laurent	....	iv., 12
γ - $Cl_2; a_1$	"	abt. 300	103	Atterberg	B., 9, 317	29, 915
γ-	.... "	"	....	103	Widmann	B. S., [2], 28, 508	32, 901
γ-	.... "	"	....	103	"	B., 12, 2230	38, 168
δ - $a_1a_2; a_1$	"	....	124	Atterberg	B., 9, 1187	31, 85
δ-	.... "	"	....	129 u. c.	"	"	"
δ-	.... "	"	....	129 u. c.	"	"	"
δ-	.... "	"	....	131	"	B., 9, 1733	31, 466
δ-	.... "	"	....	131	Widmann	B. S. [2], 28, 511	32, 901
?-	....	"	....	140	"	B., 12, 1714	38, 47
ad-	....	"	....	160	Laurent	....	iv., 12
a-	....	$C_{10}H_5Cl_5$	....	93	Widmann	B. S. [2], 28, 505	32, 900
	di-chloride						
"	"	"	....	93	Atterberg and Widmann	B., 10, 1842	34, 322
β-	"	"	....	152	Widmann	B. S. [2], 28, 507	32, 900
α -Dichlornaphthalene	....	$C_{10}H_6Cl_2$	....	Liquid	Laurent	....	iv., 11
x-	....	"	....	Liquid	"	....	"
?-	....	"	280-300	....	Rimarenko	B., 9, 663	30, 298
ad-	....	"	....	29	Laurent	....	iv., 11
e-	....	"	....	31	"	....	"
a-	.... β	"	280-282	35-36	Faust and Saame	A., 160, 69	25, 65; vi., 846
a	.... β	"	282.5-284 (740)	35-36	Kraft and Becker	B., 9, 1089	30, 518
a-	.... β	"	....	35-36	Faust and Saame	B. S. [2], 22, 244	31, 207
a-	.... β	"	....	35-36	Widmann	B. S. [2], 28, 505	32, 900
a-	.... β	"	....	38	"	B., 15, 2160	44, 208
η-	.... β	"	....	48	"	B. S. [2], 28, 505	32, 901
η-	.... β	"	....	48	Cleve	B., 12, 1714	38, 47
c-	....	"	....	50	Laurent	....	iv., 11
θ-	.... β	"	....	59	Armstrong	B., 15, 205	
θ-	.... β	"	....	61.5	Cleve	B. S., 29, 415	
β-(?)	....	"	....	51	Hermann	A., 151, 81	vi., 846
β - $a_1a_2;$	"	....	66	Atterberg	B., 9, 1187	31, 85
β-	.... "	"	....	68	Hermann	A., 151, 81	vi., 846
β-	.... "	"	281-283	68	Faust and Saame	A., 160, 70	25, 65; vi., 846
β-	.... "	"	286-287 (740)	68	Kraft and Becker	B., 9, 1089	30, 518
β-	.... "	"	....	68	Faust and Saame	B. S. [2], 22, 244	31, 207
β-	.... "	"	....	67.5	Cleve	B. S. [2], 26, 242	31, 208
β-	.... "	"	....	67-68	Meldola	....	43, 2
β-	.... "	"	....	68	Arnell	B. S., 39, 62	44, 595
β-	.... "	"	....	67-68	Atterberg	B., 10, 547	32, 623
β-	.... "	"	....	67	"	B., 9, 1189	
β-	.... "	"	....	67-68	Widmann	B. S. [2], 28, 516	32, 900
β-	.... "	"	....	67	"	B., 12, 1714	38, 47
ζ - $a_1; a_1$	"	....	83	Atterberg	B., 9, 1732	31, 466
ζ-	....	"	....	83	Widmann	B. S. [2], 28, 505	32, 901
?-	.... $a_1; a_2$	"	....	92	Hermann	A., 151, 163	vi., 846
?-	.... "	"	....	94	Claus and Ochler	B., 15, 314	42, 737
y-	....	"	....	95	Laurent	....	iv., 11
j-	....	"	....	101	"	....	"
γ - $a_1; a_2$	"	....	107	Atterberg	B., 9, 1188	31, 85
γ-	.... "	"	abt. 289	107	"	B., 9, 317	29, 915
γ-	.... "	"	....	107	"	B. S. [2], 22, 244	31, 207
γ-	.... "	"	....	107	Widmann	B. S. [2], 28, 505	32, 900
γ-	.... "	"	....	107	Armstrong	B., 15, 205	
δ - $Cl; Cl$	"	....	114	Cleve	B. S. [2], 22, 244	31, 207
δ-	.... "	"	....	114	Widmann	B. S. [2], 28, 505	32, 900
δ-	.... "	"	....	114	Cleve	B., 10, 1724	34, 154

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
δ -Dichlornaphthalene	Cl ; Cl	$C_{10}H_6Cl_2$	....	114	Alén	B. S. [2], 36, 433	42, 409
"	"	"	....	120	Widmann	B., 15, 2162	44, 208
ϵ -	β; (?)	"	....	135	Cleve	B. S. [2], 22, 244	31, 207
ϵ-	"	"	....	135	Widmann	B. S. [2], 28, 505	32, 901
ϵ-	"	"	....	135	Cleve	B., 10, 1722	34, 154
ϵ -	"	"	285	135	Claus & Zimmerman	B., 14, 1483	40, 915
ϵ-	"	"	....	135	Alén	B. S. [2], 36, 433	42, 409
ϵ-	"	"	....	135	Cleve	B. S., 25, 244	39, 142
α -	β -tetra-chloride	$C_{10}H_6Cl_6$	....	Liquid	Widmann	B. S. [2], 28, 506	32, 900
γ-	?- "	"	....	85	Widmann & Atterberg	B. S. [2], 27, 513	32, 901
γ-	"	"	....	85	Atterberg & Widmann	B., 10, 1842	34, 322
ϵ-	"	"	....	141	Laurent	....	iv., 9
α -	α- "	"	....	172	Faust and Saame	A., 160, 67	25, 64; vi., 846
α -	α- "	"	....	172	Widmann	B. S. [2], 28, 506; B., 15, 2160	32, 900
Chlornaphthalene	a	$C_{10}H_7Cl$	250-252	Liquid	Faust and Saame	A., 160, 68	25, 64; vi., 846
"	a	"	254-255	Liquid	Atterberg	B., 9, 317, 927	29, 915
"	a	"	....	Liquid	Palm	B., 9, 499	30, 206
"	a	"	....	Liquid	Liebermann	A., 183, 225	31, 607
"	a	"	....	Liquid	Smith	....	32, 563
"	a	"	293	Liquid	Widmann	B. S. [2], 28, 509	32, 900
"	a	"	251-253	....	Koninck and Marquart	B., 5, 11	25, 302
"	a	"	259-262	....	Laurent	A., 8, 13	
"	a	"	abt. 260	....	Carius	A., 114, 146	
"	β	"	256.5 cor.	55.5	Cleve and Dannfelt	B. S. [2], 25, 256	30, 81
"	β	"	254	53	Cleve	B. S. [2], 25, 258	30, 82
"	β	"	....	61	Palm	B., 9, 499	30, 206
"	β	"	253-258 (751)	56	Rimarenko	B., 9, 663	30, 298
"	β	"	....	61	Liebermann	A., 183, 270	31, 607
"	β	"	....	53	"	"	"
"	β	"	....	56	"	"	"
"	β	"	....	56	Smith	....	32, 563
"	β	"	....	55.5-56	Widmann	B. S. [2], 28, 505	32, 900
"	β	"	....	53	Cleve	B., 10, 1722	34, 154
"	β	"	....	59	Armstrong	B., 15, 203	
β -	tetra-chloride	$C_{10}H_7Cl_5$	...	Liquid	Widmann	B. S. [2], 28, 506	32, 900
β-	"	"	....	81	"	B., 12, 1714	38, 47
?	"	"	....	105	Gerhardt	....	iv., 9
?	"	"	....	121	Fischer	B., 11, 741	
?	"	"	....	128-130	Faust and Saame	A., 160, 67	25, 64; vi., 846
α-	"	"	....	131.5	Widmann	B., 12, 1714	38, 47
α-	"	"	....	182	"	B. S. [2], 28, 506	32, 900
Naphthalene dichloride	....	$C_{10}H_8Cl_2$	....	Liquid	Laurent	A. C. [1833], 52, 278	
"	"	"	....	Liquid	Fischer	B., 11, 737	
"	$\alpha_1\beta_1$	"	....	Liquid	Widmann	B. S. [2], 28, 505	32, 899
"	tetrachloride	$C_{10}H_8Cl_4$	....	160	Laurent	A. C. [1883], 52, 278	iv., 8
"	"	"	....	182	Schwarzer	B., 10, 379	
"	"	"	....	182	Fischer	B., 11, 738	
"	"	"	....	182	Faust and Saame	A., 160, 66	25, 64; vi., 846
"	"	"	....	182	Widmann	B. S. [2], 28, 505	32, 899
Tetrachlorisocymene	$MePr^{\beta}Cl_4=1.3.(?)_4$	$C_{10}H_{10}Cl_4$	....	158.5	Kelber	B., 16, 617	44, 806
Dichlorcymene	$Me.Pr^{\alpha}.Cl_2=1.4.(?)_2$	$C_{10}H_{12}Cl_2$	240-244	....	Gerichten	B., 10, 1252	34, 49
Dichlorisocymene	$Me.Pr^{\beta}.Cl_2=1.3.(?)_2$	"	280	....	....	A., 210, 53	
Cumylene chloride	....	"	255-260	...	Cahours	A. C. [3], 23, 345	ii., 184
"	"	"	255 p. d.	....	Tittscheff	J. p. C., 75, 370	"
Tetrachlorturpentine	....	$C_{10}H_{12}Cl_4$	....	110-115	....	....	v., 925

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Chloreymene	Me.Pr ^a .Cl=1.4.6	C ₁₀ H ₁₃ Cl	208-211	....	Gerichten	B., 10, 1249	34, 49
"	"	"	214	....	Kekulé & Fleischer	B., 6, 1090	vii., 935; 27, 66
"	"	"	214	....	Gerichten	B., 11, 1091	34, 787
"	Me.Pr ^a .Cl=1.4.5	"	208-210	....	"	B., 11, 365; J. p. [2], 3, 64	
Cymylchloride ....	....	"	225-229	....	Errera	G. I., 13, 421	46, 300
" ....	....	"	220-240	....	....	J. [1875], 414	
" (?) ....	....	" (?)	abt. 225	....	Spica	G. I., 5, 394	29, 582
"	C ₆ H ₄ .Pr.CH ₂ Cl	"	230	....	Paternò and Spica	G. I., 9, 397	38, 107
Chlorcamphene ....	....	C ₁₀ H ₁₅ Cl	....	60	Pfaundler	A., 115, 29	i., 728
" ....	....	"	....	60	Wright	....	28, 688
" ....	....	"	....	60	Spitzer	B., 13, 1046	38, 717
" (?) ....	....	"	....	100	Wright	26, 549, 686	vii., 833
Camphene dichloride ....	....	C ₁₀ H ₁₆ Cl ₂	....	70	Pfaundler	A., 115, 29	i., 728
" " ....	....	"	....	155-155.5	Spitzer	B., 11, 1819	38, 168
" " ....	....	"	....	155-155.5	"	B. 13, 1046	38, 717
Chlorterebene hydrochloride	C ₁₀ H ₁₅ Cl.HCl	"	....	107	Papasogli	G. I., 6, 538	31, 593
Divalerylene hydrochloride....	....	C ₁₀ H ₁₇ Cl	115-120 (20)	....	....	B. S., 33, 24	
Diisoprene hydrochloride ....	....	"	145	....	....	B. S., 24, 112	
Geranylchloride ....	....	"	d.	l. 15	Jacobsen	A., 157, 232	vii., 552
Cajputene hydrochloride ....	....	"	160	....	....	....	i., 713
" " ....	....	"	....	55	....	J. [1860], 482	
Calamene hydrochloride ....	....	"	....	63	Kurbatow	A., 173, 4	28, 91
" " ....	....	" (?)	....	abt. 65	"	B., 6, 1210	vii., 231
Cetrene hydrochloride ....	....	"	....	100	....	....	i., 1005
Turpentine hydrochloride ....	....	"	165	115	....	....	v., 922
" " ....	....	"	....	b.-10	....	....	"
Terpene hydrochloride	From parsley oil	"	....	115-116	Gerichten	B., 9, 258	30, 78
Terebene hydrochloride	C ₁₀ H ₆ .HCl	"	....	125	Armstrong & Tilden	....	35, 733
" " ....	"	"	....	125	Riban	B. S. [2], 19, 244	27, 154
Isoterebentenehydrochloride	....	"	210	....	"	C. R., 79, 225	
Terebentene hydrochloride	....	"	120 (0.045)	Liquid	Barbier	C. R., 96, 1066	44, 809
" " ....	....	"	120 (0.04)	Liquid	"	"	"
Terpene hydrochloride	C ₁₀ H ₆ .HCl	"	abt. 210	125	Tilden	C. N., 39, 256	36, 943
" " ....	"	"	....	127	Beilstein & Wiegand	B., 15, 1742	
" "	From pinus sylvestris	"	204 p. d.	127	Flawitzky	B. S. [2], 30, 433	36, 168
" " ....	....	"	....	131-132	Armstrong & Tilden	....	35, 733
Olebene hydrochloride	C ₁₀ H ₆ .HCl	"	....	127	Kurbatow	Z. C. [2], 7, 201	24, 695; iii., 873
" " ....	"	"	....	127	"	A., 173, 3	28, 90
Borneol chloride ....	....	"	....	132	Kachler	A., 164, 75	vii., 206; 25, 1011
" " ....	....	"	....	147-148 c.	"	B., 11, 460	34, 512
" " ....	....	"	....	159 c.	"	A., 197, 86	36, 1040
Camphene hydrochloride ....	....	"	....	145	Armstrong & Tilden	....	35, 733
" " ....	....	"	....	145	" "	....	35, 744
α- " "	inactive	"	....	145	Montgolfier	A. C. [5], 6, 372	
β- " " ....	"	"	....	147	"	A. C. [5], 6, 374	
" "	in HCl gas	"	....	147	"	A. C. [5], 14, 5	34, 901
" " ....	....	"	....	153	Kachler and Spitzer	A., 200, 343	38, 324
" " ....	....	"	....	156-157	" "	"	"
Terpene hydrochloride	From mathantheroselinum	"	190	....	....	A., 51, 337	
" "	" Muscat nut oil	"	194	....	Cloëz	J., 17, 536	
Divalerylene dihydrochloride	....	C ₁₀ H ₁₈ Cl ₂	....	25	....	B. S., 33, 24	
Citrene dihydrochloride	From lemon oil	"	142	43-44	Cahours	....	i., 1005
" "	"	"	162	....	Blanchet and Sell	....	"
" "	" sweet orange	"	....	50	....	Gm., 14, 306	i., 1002
Terpene dihydrochloride	" camphor oil	"	....	42	Lallemand	A. C., 57, 404	i., 729
" "	" erigeron canadense	"	....	47-48	Beilstein & Wiegand	B., 15, 2854	44, 346
" "	" colophony	"	....	49	Rénard	C. R., 92, 886	40, 739
" "	" templin oil	"	....	55	....	J. [1855], 645	v., 720
" " ....	....	"	....	50	Tilden	B., 12, 1131	33, 249
" " ....	....	"	....	48	"	....	35, 288

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Terpene dihydrochloride ....	....	$C_{10}H_{13}Cl_2$	....	48	Tilden	C. N., 39, 256	36, 943
β -Isoterebenthene dihydrochloride	$C_{10}H_{16} \cdot 2HCl$	"	....	49.5	....	A. C. [5], 6, 228	
Diisoprene dihydrochloride ....	"	"	....	49	Tilden	45, 414	
" "	"	"	175-180 (150)	49.5	....	B. S., 24, 112	
Pilocarpene dihydrochloride	"	"	....	49.5	Hardy	J. Ph. [4], 23, 95	31, 325
Carvene dihydrochloride ....	"	"	....	50.5	....	A., 40, 333	i., 809
Cajputene dihydrochloride ....	"	"	....	55	....	J. [1860], 482	i., 713
Sylvestrene dihydrochloride	"	"	....	72-73	Atterberg	B., 10, 1206	34, 79
" " ....	"	"	....	72-73	Tilden	C. N., 39, 256	36, 943
Copabene dihydrochloride ....	"	"	....	77	....	....	ii., 17
Menthyl chloride ....	....	$C_{10}H_{19}Cl$	204	....	Walters	A., 32, 292	iii., 881
$C_{10}H_{18}$ hydrochloride	From calamene oil	"	....	abt. 65	Kurbatow	B., 6, 1210	27, 259
Chlordiamylene chloride ....	....	$C_{10}H_{19}Cl_3$	240-250	....	Bauer	Z. C. [1867], 393	vi., 122
Decyl chloride	From isocapryl alcohol	$C_{10}H_{21}Cl$	175-185	....	....	J. [1864], 338	
" "	" fusel oil	"	190-200	....	Wurtz	B.S. [1863], 5, 315	v., 1091
" "	" petroleum	"	200-204	....	Pelouze & Cahours	J., 16, 530	"
" "	" diamyl	"	abt. 200	....	Schorlemmer	15, 425	iii., 182
Chlorundecylene ....	....	$C_{11}H_{21}Cl$	221-223	....	Giesecke	Z. C., 6, 431	vii., 808
Undecylene dichloride ....	....	$C_{11}H_{22}Cl_2$	270	....	....	Z. C. [1870], 431	
Undecyl chloride ....	....	$C_{11}H_{23}Cl$	220-224	....	....	J. [1863], 530	
Pentachlordiphenyl ....	....	$C_{12}H_5Cl_5$	....	179	Dœbner	B., 9, 130	40, 911
" " ....	....	"	<i>m. a.</i> 360	179	Schmidt & Schultz	A., 207, 342	"
Trichlordiphenyl (?) ....	....	$C_{12}H_7Cl_3(?)$	....	126	" "	"	40, 910
Dichlordiphenyl	$Cl.Cl = 4.4'$	$C_{12}H_8Cl_2$	....	148	Griess	P. T. [1864], 3, 730	iv., 410
" "	"	"	315	148	Kramers	A., 189, 142	32, 898
" " ....	"	"	....	148	Schmidt & Schultz	A., 207, 339	40, 910
" "	$C_6H_3Cl_2, C_6H_5$	"	....	179	Dœbner	B., 9, 129	29, 932
Chlordiphenyl	$Ph.C_6H_4.Cl = 1.2$	$C_{12}H_9Cl$	267-268	34	Kramers	A., 189, 144	32, 898
" "	" = 1.4	"	....	75	Schultz	B., 7, 52	27, 468 ; vii., 937
" " ....	" "	"	....	75	"	A., 174, 209	28, 149
" "	" "	"	282	75.5	Kramers	A., 189, 145	32, 898
" "	" = 1.3	"	....	89	Pfankuch	J. p. C. [2]; 6, 106	26, 363 ; vii., 656
Duodecyl chloride ....	....	$C_{12}H_{25}Cl$	242-245	....	Pelouze & Cahours	J., 16, 530	vi., 547
From pentachlorfluorene dichloride	....	$C_{13}H_6Cl_5 (?)$	....	110	Hodgkinson and Matthews	43, 171	
Pentachlorfluorene dichloride	See $C_{13}H_8Cl_2$	$C_{13}H_5Cl_7$	....	104	" "	43, 170	
Trichlorfluorene ....	....	$C_{13}H_7Cl_3$	....	147	Holm	B., 16, 1082	44, 922
Dichlorfluorene	$C.C : C.C.C : C.C$ $\begin{array}{c} \parallel \quad \quad \parallel \\ Cl.C.C : C - C : C.CCl \end{array}$	$C_{13}H_8Cl_2$	....	128	Hodgkinson and Matthews	B., 16, 1103	43, 170
Diphenyl dichlormethane	CCl_2Ph_2	$C_{13}H_{10}Cl_2$	220 (671) ; 305 p. d. (760)	Liquid	Kekulé and Franchimont	B., 5, 909 ; A., 187, 217	26, 171
" chlormethane	Ph_2CHCl	$C_{13}H_{11}Cl$	....	14	Engler and Bethge	B., 7, 1128	28, 65
Tridecyl chloride ....	....	$C_{13}H_{27}Cl$	258-260	....	....	J. [1863], 530	
Octochlorophenanthrene ....	....	$C_{14}H_2Cl_8$	....	270-280	Zetter	B., 11, 168	34, 510
Octochloroanthracene ....	....	"	....	n. f. 350	Diehl	B., 11, 177	34, 429
Heptachloranthracene ....	....	$C_{14}H_3Cl_7$	....	a. 350	"	B., 11, 176	"
Hexachlorphenanthrene ....	....	$C_{14}H_4Cl_6$	....	249-250	Zetter	B., 11, 168	34, 510
Hexachloranthracene ....	....	"	....	a. 330	Bolas	C. N., 28, 167	27, 64
" " ....	....	"	....	320-330	Diehl	B., 11, 175	34, 429
Tetrachlorphenanthrene ....	....	$C_{14}H_6Cl_4$	....	171-172	Zetter	B., 11, 167	34, 510
β -Tetrachloranthracene ....	....	"	....	152	Liebermann and Lindemann	B., 13, 1589	40, 100
α- " ....	....	"	....	220	Gräbe & Liebermann	As., 7, 283	vi., 179
α- " ....	....	"	....	220	Diehl	B., 11, 174	34, 429
Trichloranthracene ....	....	$C_{14}H_7Cl_3$	....	162-163	Schwarzer	B., 10, 378	32, 494
Dichlorphenanthrene ....	....	$C_{14}H_8Cl_2$	....	low temp.	Zetter	B., 11, 166	34, 510

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dichloranthracene	$C_6H_4 : C_2Cl_2 : C_6H_4$	$C_{14}H_8Cl_2$	....	205	Perkin	24, 14	vi., 179
"	$C_6H_2Cl_2 : C_2H_2 : C_6H_4$	"	....	255	Kircher	B., 17, 1167	46, 1040
Dichlordiphenyl dichlorethylene	$CCl_2 : (C_6H_4Cl)_2$	$C_{14}H_8Cl_4$	....	89	....	B., 7, 1181	
Dichloranthracene dichloride	$C_6H_4 : C_2Cl_4 : C_6H_4$	"	....	149-150	Schwarzer	B., 10, 377	32, 493
From anthraquinone chloride	....	"	....	203-204	Thörner and Zincké	B., 10, 1480	34, 231
Dichlorphenanthrene tetrachloride	$C_{14}H_8Cl_2.Cl_4$	$C_{14}H_8Cl_6$	....	145	Zetter	B., 11, 165	34, 510
α -Dichloranthracene tetrachloride	"	"	....	141-145 d.	Diehl	B., 11, 174	34, 429
β -Dichloranthracene tetrachloride	"	"	....	205-207	Liebermann and Lindemann	B., 13, 1588	40, 99
Monochlorphenanthrene ....	....	$C_{14}H_9Cl$	....	Liquid	Zetter	B., 11, 166	34, 510
Monochloranthracene ....	....	"	....	103	Perkin	C. N., 34, 145	31, 209
Chlortolane dichloride ....	....	$C_{14}H_9Cl_3$	....	137-145	Limpricht and Schwanert	B., 4, 379	vii., 1162
" .....	....	"	....	150	" "	"	24, 511
Pentachlortolylphenylketone	$Ph.CCl_2.C_6H_4.CCl_3=1.4$	$C_{14}H_9Cl_5$	....	79-80	Thörner	B., 9, 1738 ; A., 189, 95	31, 464 ; 34, 68
Dichlorphenyltrichlorethane	$CCl_2CH.(C_6H_4Cl)_2$	"	....	105	Zeidler	B., 7, 1181	28, 148
β -Tolane dichloride	$C_6H_5.C_2Cl_2.C_6H_5$	$C_{14}H_{10}Cl_2$	....	60	Hanhart	B., 15, 900	42, 1103
β- " " ....	"	"	....	63	Zinin	Z. C. [2], 4, 718 ; Z. C. [2], 7, 284	vii., 157, 1162 ; 24, 1041
β- " " ....	"	"	....	63	Liebermann and Homeyer	B., 12, 1973	38, 259
β- " " ....	"	"	....	63	Limpricht and Schwanert	B., 4, 379	24, 511
α- " " ....	"	"	....	140	Hanhart	B., 15, 899	42, 1103
α- " " ....	"	"	....	143	Liebermann and Homeyer	B., 12, 1973	38, 259
α- " " ....	"	"	....	153	Zinin	Z. C. [2], 4, 718	vii., 157, 1162
α- " " ....	"	"	....	153	"	Z. C. [2], 7, 284	38, 259
α- " " ....	"	"	....	153	Limpricht and Schwanert	B., 4, 379	24, 511
Dichlorstilbene ....	....	$C_{14}H_{10}Cl_2$	....	170	Kade	J. p. [2], 19, 461	38, 46
Diphenyldichlorethylene	$Ph_2C : CCl_2$	"	....	80	Baeyer	B., 6, 223	
Dichlordiphenylethylene	$CH_2 : C(C_6H_4Cl)_2$	"	280-285	Liquid	Hepp	B., 7, 1419	28, 362
Tolane tetrachloride....	$Ph.CCl_2.CCl_2Ph$	$C_{14}H_{10}Cl_4$	....	163	Liebermann and Homeyer	B., 12, 1971	38, 259
" .....	"	"	....	163	Hanhart	B., 15, 901	
Tetrachloranthracene	$C_6Cl_4 : C_2H_2 : C_6H_4$	"	....	148	Kircher	B., 17, 1167	46, 1040
Diphenyltrichlorethylene	$Ph_2CH.CCl_3$	$C_{14}H_{11}Cl_3$	....	64	Baeyer	B., 5, 1099	26, 501
Chlorstilbene dichloride	....	"	....	85	....	B. J., 25, 620	
?-Stilbene dichloride....	$C_6H_5.C_2H_2Cl_2.C_6H_5$	$C_{14}H_{12}Cl_2$	....	69-70	Forst and Zincké	B., 8, 797	28, 1196
β- " " ....	"	"	....	92-93	" "	"	"
β- " " ....	"	"	....	94	Zincké	A., 198, 134	38, 115
β- " " ....	"	"	....	94	Perkin	....	39, 427
β- " " ....	"	"	....	93-94 ; a. f. 160-165	Zincké	B., 10, 999	32, 622
?- " " ....	"	"	....	153	"	A., 198, 134	38, 116
α- " " ....	"	"	....	184	Amman	Z. C. [2], 7, 83	24, 385 ; vii., 171
α- " " ....	"	"	....	188	"	A., 168, 74	26, 1140
α- " " ....	"	"	....	190	Forst and Zincké	B., 8, 797	28, 1190
α- " " ....	"	"	....	191-192	" "	B., 10, 999	32, 622
α- " " ....	"	"	....	192	Paal	B., 16, 638	
α- " " ....	"	"	....	192	Perkin	....	39, 427
α- " " ....	"	"	....	191-192 ; a. f. 160-165	Zincké	B., 10, 999	32, 622
α - " " (identical)	"	"	....	192	"	A., 198, 131	38, 115
α- " " "	"	"	....	192	"	"	"
Di-chlordibenzyl	$ClC_6H_4(CH_2)_2.C_6H_4Cl=(1.4)_2$	"	....	112	Kade	J. p. [2], 19, 462	38, 46

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
From benzyl chloride ....	....	$C_{14}H_{13}Cl$	204–206 p.d. (i.v.)	....	Ziucké	B., 7, 278	27, 691
Tetradecyl chloride ....	....	$C_{14}H_{29}Cl$	280	....	Pelouze & Cahours	J., 16, 530	
Trichloridryl ....	....	$C_{15}H_7Cl_3$	....	a. 300	Goldschmidt	W. A., 81, 415	40, 283
Dichlorditolyl methane	$CH_2(C_6H_4CH_2Cl)_2$	$C_{15}H_{14}Cl_2$	....	106–108	Weiler	B. 7, 1187	28, 152
Hydrochloride, from cubebs oil	$C_{15}H_{24}HCl$	$C_{15}H_{25}Cl$	....	117–118	Ogialoro	G. I., 5, 467	30, 643
Dihydrochloride, from cubebs oil	$C_{15}H_{24} \cdot 2HCl$	$C_{15}H_{26}Cl_2$	....	118	„	B., 8, 1357	
„ „	„	„	....	131	....	....	ii., 172
Tetrachlorpyrene ....	....	$C_{16}H_6Cl_4$	....	a. 330	Goldschmidt and Wegschneider	M. C., 4, 241	44, 1003
Trichlorpyrene ....	....	$C_{16}H_7Cl_3$	....	256–257	„ „	„	
α -Dichlorpyrene ....	....	$C_{16}H_8Cl_2$	....	154–156	„ „	M. C., 4, 239	44, 1002
β-	....	„	....	194–196	„ „	M. C., 4, 240	„
Chlorpyrene ....	....	$C_{16}H_9Cl$	....	118–119	„ „	M. C., 4, 238	44, 1001
Diphenyl trichloroquartene....	$C_3H_2Cl_3 \cdot CH \cdot Ph_2$	$C_{16}H_{13}Cl_3$	....	80	Hepp	B., 7, 1420	28, 362
Ditolyl dichlorethylene	$(C_6H_4Me)_2C : CCl_2$	$C_{16}H_{14}Cl_2$	....	92	Fischer	B., 7, 1191	28, 154
„ trichlorethane	$(C_6H_4Me)_2CH : CCl_3$	$C_{16}H_{15}Cl_3$	....	89	„	„	„
Cetyl chloride ....	....	$C_{16}H_{33}Cl$	a. 200	....	Tütttscheff	R. C. p. [2], 463	i., 840
„ „	....	„	289 p. d.	....	„	J., 13, 406	
Trichlorchrysene ....	....	$C_{18}H_9Cl_3$	....	a. 300	Schmidt	J. p. [2], 9, 279	27, 988
Dichlorchrysene ....	....	$C_{18}H_{10}Cl_2$	....	267	„	J. p. [2], 9, 278	„
Triphenylchlormethane (?)	Ph_3CCl (?)	$C_{19}H_{15}Cl$ (?)	....	105–115	....	B., 7, 1203; A., 194, 254	
Iso-amylchloranthracene	$C_6H_4 : C_2Cl(C_6H_{11}) : C_6H_4$	$C_{19}H_{19}Cl$	....	70–71	Liebermann and Tobias	B., 14, 797	40, 737
„ „	„	„	....	70–71	Liebermann	A., 212, 111	42, 863
α -Heptachlordinaphthyl ....	....	$C_{20}H_7Cl_7$	....	70	Widmann	B. S. [2], 28, 505	32, 901
β-	....	„	....	164	„	„	„
Enneachlordinaphthalene ....	....	$C_{20}H_7Cl_9$	....	156–158	Faust and Saame	A., 160, 73	vii., 466; 25, 65
Heptachlordinaphthalene ....	....	$C_{20}H_9Cl_7$	....	106	„ „	A., 160, 65	25, 65; vi., 847
„ „	....	„	....	100–102	„ „	„	„
Tetrachlor- $\beta\beta$ -dinaphthyl ....	....	$C_{20}H_{10}Cl_4$	....	m. b. 100	Smith and Poynting	....	27, 855
α -Dibenzoylbenzene tetra-chloride	$C_6H_4(CCl_2Ph)_2$	$C_{20}H_{14}Cl_4$	....	91–92	Wehnen	B., 9, 311	
Hydrocuminoin dichloride	$C_9H_{11} \cdot CHCl \cdot CHCl \cdot C_9H_{11}$	$C_{20}H_{24}Cl_2$	....	184–185	Raab	B., 10, 54	32, 894
(?) ....	....	$C_{20}H_{33}Cl$	abt. 110	....	Bauer and Verson	A., 151, 52	vi., 1112
(?) ....	....	„	180–200 d.	....	„ „	A., 151, 57	
From Minjak Lagam balsam	$C_{20}H_{32} \cdot 4HCl$	$C_{20}H_{36}Cl_4$	....	114	Hausner	A. P. [3], 21, 241	46, 355
„ oil of copaiva balsam ....	„	„	....	77	....	A., 34, 321	
„ „	„	„	....	54	....	A., 7, 158	
Eikosylene hydrochloride ....	....	$C_{20}H_{39}Cl$	225–230	Liquid	Lippmann & Hewliezek	B., 12, 71	36, 447
(?) ....	....	$C_{21}HCl_{25}$	....	102	....	J. [1877], 421	
α -Dinaphthyldichlorethylene	$(C_{10}H_7)_2C : CCl_2$	$C_{22}H_{14}Cl_2$	....	149–150	Grabowsky	B., 11, 299	34, 509
β -	$(C_{10}H_7)_2ClC : CCl(C_{10}H_7)$	„	a. 360	219	„	B., 11, 300	„
α -Dinaphthytrichlorethane ....	....	$C_{22}H_{15}Cl_3$	....	(?)	„	B., 11, 298	„
β -	$(C_{10}H_7)_2CH \cdot CCl_3$	„	....	156	„	„	„
Camphocarbonylchloride ....	....	$C_{22}H_{28}Cl_8$	....	45–45.5	Kachler and Spitzer	C. C. [1881], 359	42, 66
Tetrachlor- + trichlorpropane	$3C_3H_4Cl_4 + 5C_3H_5Cl_3$	$C_{24}H_{37}Cl_{27}$	40 (i. v.)	....	....	B., 16, 329	
Cholesteryl chloride ....	....	$C_{26}H_{43}Cl$	....	100	Planer	A., 118, 26	vi., 448
„ „	....	„	....	97	Lindenmeyer	A., 112, 359	
Myricyl chloride ....	....	$C_{30}H_{61}Cl$	....	64.5	Pieverling	A., 183, 348	31, 586
„ „	....	„	....	64.5	Canzonieri and Spica	G. I. [1882], 227	42, 1040
Pentaphenylchlorethane	$CPh_2Cl \cdot CPh_3$	$C_{32}H_{26}Cl$	a. 340	120–125	....	J. [1877], 403	
Tarconyl chloride ....	....	$C_{60}H_{101}Cl$ or $C_{51}H_{108}Cl$ or $C_{52}H_{106}Cl$	....	67–68	Canzonieri and Spica	G. I. [1882], 227	42, 1040

(3.) CHBr.

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Bromoform		CHBr ₃	144-146	....	Bolas and Groves	....	24, 783
"		"	abt. 145	....	Borodino	K. L., 2, 145	"
"		"	147-148	....	Klimenko	J. p. C. [2], 13, 18	29, 900
"		"	149-150	....	Schmidt	B., 10, 193	32, 293
"		"	151.2 c. (760)	s. 2.5	Thorpe	....	37, 201
"		"	152	....	Cahours	J., 1, 501	37, 202
"		"	120.3 (330)	7.8	Perkin	45, 533	
"		"	148-150	....	Dyson	43, 36	
"		"	151.2	....	Henry	A. C. [5], 30, 266	46, 718
"		"	....	- 9	Herrmann	G. J. C., 1855	
Methylene dibromide		CH ₂ Br ₂	80-82	....	Steiner	B., 7, 507	27, 782
"		"	98.5	l. - 12	Henry	A. C. [5], 30, 266	46, 718
"		"	96.5-97.5 c.	....	Perkiu	45, 520	
Methyl bromide		CH ₃ Br	13 (759)	....	Pierre and Puchot	C. R., 27, 213	iii., 987
"		"	4.5	....	Henry	A. C. [5], 30, 266	46, 718
"		"	4.5 c.	....	Perkin	45, 454	
(?)		"	b. - 17	....	Bunsen	....	iii., 422
Tribromethylene	CBBr ₃ :CHBr	C ₂ HBr ₃	130	....	Lennox	13, 206	ii., 570; 34, 401
"	"	"	162-163	Liquid	Sabanejeff	A., 178, 123	29, 56
"	"	"	162	....	Demole	B., 11, 315	34, 401
"	"	"	162.5	....	Anschutz	A., 221, 133	46, 33
"	"	(C ₂ HBr ₃) _n	....	174	Sabanejeff & Reboul	C. R., 54, 1229	41, 391
"	"	"	....	175	Sabanejeff	A., 178, 114	29, 56
Pentabromethane	CHBr ₂ .CBBr ₃	C ₂ HBr ₅	....	48-50	Reboul	A., 124, 268	ii., 571
"	"	"	....	50-52	Limpricht	A., 165, 253	26, 625; vii., 828
"	"	"	....	51	Orlorsky	B. S. [2], 28, 348	34, 31
"	"	"	210 (300)	54	Druzel	B., 12, 2208	38, 228
"	"	"	....	56-57	Burgoin	C. R., 80, 325	28, 553
Dibromethylene	CH ₂ :CBr ₂	C ₂ H ₂ Br ₂	75	....	Fontaine	C. R., 7, 1361	vii., 490
"	"	"	88	....	Reboul	A., 126, 270	
"	"	"	86-88	....	Henry	C. R., 97, 1491	46, 571
"	"	"	88-90	....	"	C. R., 98, 680	46, 831
"	"	"	87-92 & 87-95	....	Demole	B., 11, 316, 1308	
"	"	"	88	....	Sabanejeff	B. S. [2], 34, 323	40, 399
"	"	"	90-91	....	Henry	C. R., 98, 741	46, 831
"	"	"	91	Liquid	Tawildarow	B., 6, 1459	vii., 479; 27, 348
"	"	"	91	....	Plimpton	41, 397	
"	"	"	91.5	....	Anschutz	A., 221, 133	46, 33
"	CHBr:CHBr	"	106-109	....	Sabanejeff	B., 12, 2075	
"	"	"	109.5	....	Weger	A., 221, 61	46, 11
"	"	"	110-111	....	Anschutz	A., 221, 133	46, 33
"	"	"	110-111	l. - 17	Plimpton	41, 391	
"	"	"	110	....	Henry	C. R., 98, 741	46, 831
"	"	"	110-111	l. - 17	Plimpton	39, 536	
"	"	"	130	....	Berthelot	....	41, 391
"	"	"	157	....	Tawildarow	A., 176, 23	
"	"	"	161	....	"	B., 6, 1459	vii., 479; 27, 348
"	(CH ₂ :CBr ₂) _n	(C ₂ H ₂ Br ₂) _n	220-230	Liquid	Demole	B. S. [2], 34, 204	40, 142
Tetrabromethane		C ₂ H ₂ Br ₄	206	Liquid	Burgoin	B. S. [2], 19, 148	26, 621
"		"	195-197(300); 225-227(732)	....	Denzel	B., 12, 2207	38, 228
"		"	200	....	Demole	B., 11, 1308	34, 847
"		"	190-210	....	"	B. S. [2], 34, 201	40, 142
"	CHBr ₂ .CHBr ₂	"	abt. 200	s. f. m.	Lennox	13, 206	ii., 570
"	"	"	209 p. d.	l. - 20	Tawildarow	B., 6, 1459	vii., 479; 27, 348

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tetrabromethane	CHBr ₂ .CHBr ₂	C ₂ H ₂ Br ₄	d.	Liquid	Sabanejeff	A., 178, 113	29, 56
"	"	"	....	l. — 20	Burgoin	B. S. [2], 27, 395	32, 443
"	"	"	136-137.2 (36)	l. — 24	Anschutz	B., 12, 2074	38, 98
"	"	"	139-139.2 (41)	l. — 24	"	B., 12, 2075	
"	"	"	200 d.	....	....	A., 216, 255	
"	"	"	195-200	....	....	B. S., 34, 28	
"	"	"	114 (14)	....	Anschutz	A., 221, 133	46, 33
"	CH ₂ Br.CBr ₃	"	103.5 (14)	....	"	"	"
"	"	"	abt. 200 p. d.	s. — 17	Burgoin	A. C. [5], 12, 427; B. S. [2], 27, 395	34, 30; 32, 443
"	"	"	150	s. 0	Sell and Salzmann	B., 7, 496	
"	"	"	200 d.	....	....	A., 216, 255	
"	"	"	208-211	....	....	A., 176, 24	
"	CHBr ₂ .CHBr ₂	"	....	abt. 42	Berend	A., 135, 257	vi., 36
γ-	CH ₂ Br.CBr ₃	"	abt. 206 p. d.	54.5	Burgoin	C. R., 79, 953	28, 343
"	"	"	....	54.5	"	B. S. [2], 27, 395	32, 443
"	"	"	220	52	Kessel	B., 10, 1669	34, 128
"	"	"	206	54-55	Reboul & Burgoin	C. R., 84, 556	32, 592
δ-	"	"	....	150-160	Burgoin	C. R., 79, 953	28, 343
"	(CH ₂ Br : CBr ₃) _n	(C ₂ H ₂ Br ₄) _n	....	185	Tawildarow	B., 6, 1459	vii., 479; 27, 348
Bromethylene(vinyl bromide)	CH ₂ :CHBr	C ₂ H ₃ Br	ord. temp.	....	Regnault	....	ii., 570
"	"	"	16	....	Anschutz	A., 221, 133	46, 33
"	"	"	16 c.	....	Perkin	....	45, 540
"	"	"	18	....	Reboul	A., 155, 29, 212	vii., 489
"	"	"	17-18	....	"	C. R., 74, 944	25, 684
"	"	"	15-16	....	Livoff	B. S. [2], 30, 255	34, 963
Tribromethane	CHBr ₂ :CH ₂ Br	C ₂ H ₃ Br ₃	186.5	....	Wurtz	A. C. [3], 51, 84	ii., 570
"	"	"	187-188	....	Anschutz	A., 221, 133	46, 33
"	"	"	188	....	Glöckner	As., 7, 111	vi., 603
"	"	"	187	....	Caventou	C. R., 52, 1330	vi., 594
"	"	"	185-186	....	Orlowsky	C. C. [1877], 3	32, 869
"	"	"	186	....	Simpson	J., 10, 461	
"	"	"	188.5-189.5 c.	....	Perkin	45, 534	
"	"	"	184-185	....	Demole	B., 9, 49	29, 692
"	"	"	191	....	Tawildarow	A., 176, 21	
"	CBr ₃ .CH ₃	"	187-188 (721)	....	Denzel	B., 11, 1735	36, 214
"	"	"	180	....	....	B. S., 34, 28	
Ethylidene dibromide	CH ₃ .CHBr ₂	C ₂ H ₄ Br ₂	86-88	....	Michael	A. C. J., 5, 192	46, 418
"	"	"	87-92	....	Demole	....	38, 158
"	"	"	93	....	Anschutz	B., 12, 2073	38, 98
"	"	"	109	....	Sabanejeff	....	46, 418
"	"	"	110	....	Plimpton	41, 397	
"	"	"	110.5	....	Anschutz	A., 221, 133; B., 16, 622	46, 33; 44, 807
"	"	"	108-110 c.	....	Perkin	45, 523	
"	"	"	110-112	....	Caventou	C. R., 52, 1330	vi., 594
"	"	"	110-112	....	Reboul	Z. C., 13, 200	
"	"	"	110-112	....	Paternò and Pisati	G. I., 1, 596	25, 233; vii., 493
"	"	"	110	....	Hofmann	J., 13, 346	
"	"	"	110	....	Lesœur	B. S. [2], 29, 483	34, 718
"	"	"	109-110 (750)	Liquid	Denzel	B., 11, 1735	36, 214
"	"	"	110	....	"	A., 195, 210	36, 368
"	"	"	110-112	....	Sabanejeff	B. S. [2], 34, 323	40, 399
"	"	"	110	....	Anschutz	B., 12, 2073	38, 98
"	"	"	114-115	....	Tawildarow	A., 176, 12	
Ethylene dibromide	CH ₂ Br.CH ₂ Br	"	129	9	....	....	ii., 569
"	"	"	127	....	Jahn	B., 13, 2108	
"	"	"	131-132	....	Butlerow	J., 14, 652	
"	"	"	127-128	....	Jahn	B., 13, 2115	
"	"	"	132.5	....	Hermann		

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethylene dibromide	CH ₂ Br.CH ₂ Br	C ₂ H ₄ Br ₂	129-129.5	....	Carnelley	....	28, 525
" "	"	"	137	....	Lescaeur	B. S. [2], 29, 483	34, 718
" "	"	"	131.6 (760)	s. 9.53	Regnault	J., 16, 70	
" "	"	"	132.6 (756.9)	13.1	Pierre	C. R., 27, 213	
" "	"	"	131.6 (770)	....	Haagen	P. A., 131, 117	
" "	"	"	131	....	Plimpton	41, 397	
" "	"	"	131	....	Plimpton & Graves	43, 123	
" "	"	"	131.6	....	Anschutz	A., 221, 133	46, 33
" "	"	"	131.5 c.	8.2-8.4	Perkin	45, 521	
" "	"	"	130-135	....	Ladenburg	B., 15, 1029	
" "	"	"	130	s. 0	Cahours	J., 3, 402	
" "	"	"	131.45 (760)	9.2	Thorpe	....	37, 177
" "	"	"	129.5	s. -12 to -15	Regnault	A. C. [2], 59, 358	
" "	"	"	129.2-131.4	....	Brown	39, 210	
" "	"	"	130	....	D'Arcet	J. P., 5, 28	
" "	"	"	130	....	Tawildarow	B. S. [2], 34, 346	40, 398
" "	"	"	130	....	Denzel	A., 195, 210	36, 368
Ethyl bromide	CH ₃ .CH ₂ Br	C ₂ H ₅ Br	40.7 (757)	....	Pierre	C. R., 27, 213	ii, 528
" "	"	"	38.78	....	Linnemann	A., 162, 39	vii., 203
" "	"	"	40.2	....	Haagen	P. A., 131, 117	
" "	"	"	38.5	....	....	....	vii., 438
" "	"	"	42-44	....	Reboul	C. R., 92, 1465	
" "	"	"	41	....	Grimshaw	....	26, 310
" "	"	"	41	....	Bonnet	....
" "	"	"	38-39 (760)	....	Gladstone and Tribe	....	27, 410
" "	"	"	38.5-39.5	....	" "	....	"
" "	"	"	38.5-39.5	....	" "	....	"
" "	"	"	38.37	....	Regnault	J., 16, 70	
" "	"	"	39	....	Denzel	A., 195, 210	36, 368
" "	"	"	38.5-38.75 c.	....	Perkin	45, 455	
" "	"	"	38	....	Henry	C. R., 98, 370	46, 979
" "	"	"	38.4	....	Anschutz	A., 221, 133	46, 33
" "	"	"	39	....	Plimpton & Graves	43, 123	
" "	"	"	39; 236 c.t.	....	Pawlewski	B., 16, 2633	46, 252
" "	"	"	b. p. tables	....	see Part III.	....
Tribromallylene ....	....	C ₃ HBr ₃	190-195	Liquid	Pinner	B., 8, 900	28, 1245
Pentabrompropylene ....	....	C ₃ HBr ₅	....	Liquid	Merz and Weith	B., 11, 2242	36, 302
Tetrabrompropylene (?) ....	....	C ₃ H ₂ Br ₄ (?)	....	45-46	Reboul and Burgoin	C. R., 84, 556	32, 592
Propargyl bromide	CH : C.CH ₂ Br	C ₃ H ₃ Br	88-90	Liquid	Henry	B., 6, 728	vii., 1008 ; 26, 1123
" "	"	"	88-90	Liquid	"	B., 7, 761	27, 977
Bromallylene ....	....	(C ₃ H ₃ Br) _n	....	115-116	Pinner	B., 14, 1082	
Tribrompropylene ....	....	C ₃ H ₃ Br ₃	183-185	....	Oppenheim	B.S.[2], 2, 6; 4, 434	vi., 96
Propargyl tribromide	CHBr : CBr.CH ₂ Br	"	n. v.	Liquid	Henry	B., 7, 761	vii., 1008 ; 27, 977
Propargyl pentabromide	CHBr ₂ .CBr ₂ .CH ₂ Br	C ₃ H ₃ Br ₅	n. v.	Liquid	"	"	"
Pentabrompropane	From CH ₃ .CHBr.CH ₂ Br	"	255	....	Cahours	A., 76, 284; J., 3, 496	
" "	....	"	....	173	....	A., 179, 61; Z.C. [1865], 719	
Dibrompropylene ....	....	C ₃ H ₄ Br ₂	120	....	Oppenheim	B.S. [2], 26, 4, 434	vi., 96
Allylene dibromide	CH ₃ .CBr : CHBr	"	120	....	Cahours	J., 3, 496	
" "	"	"	127-131	....	Linnemann	J. 18, 490	vi., 965
" "	"	"	132	....	Oppenheim	B.S.[2], 26, 4, 434	vi., 96
" "	"	"	126-138	....	"	J., 17, 493	
" "	"	"	130-131	....	Borsche and Fittig	J., 18, 314	
Dibrompropylene	CH ₂ : CBr.CH ₂ Br	"	141	....	Henry	....	vii., 1018
" "	"	"	142	....	"	C. R., 96, 1233	44, 803
" "	"	"	145	....	"	A., 154, 371	
" "	CHBr : CH.CH ₂ Br	"	151-152	....	Reboul	B. S. [2], 14, 50	vii., 1018
" "	"	"	152	....	....	....	ii., 899
" "	"	"	150-152	....	Henry	A., 154, 363	vii., 210

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dibrompropylene	$\text{CHBr}:\text{CH}.\text{CH}_2\text{Br}$	$\text{C}_3\text{H}_4\text{Br}_2$	152	....	Henry	B., 14, 403	40, 567
Allylene dibromide ....	....	$(\text{C}_3\text{H}_4\text{Br}_2)_n$	....	37	Berthelot & De Luca	A. C. [2], 63, 257	i., 141
Dibrompropylene dibromide	....	$\text{C}_3\text{H}_4\text{Br}_4$	226	Liquid	Cahours	A., 76, 284	vi., 96
Allylene tetrabromide	$\text{CH}_3.\text{CBr}_2.\text{CHBr}_2$	"	225-230 d. (760); 110-130 (10)	Liquid	Oppenheim	B. S. [2], 2, 6; 4, 434	"
" "	$\text{CH}_2\text{Br}.\text{CBr}_2.\text{CH}_2\text{Br}$	"	....	195	Hartenstein	J. p. [2], 7, 317	28, 1219
Tetrabrom glycide	$\text{CHBr}_2.\text{CHBr}.\text{CH}_2\text{Br}$	"	250-252	Liquid	Reboul	As. 1, 232	ii., 899
Tribromisopropyl bromide ....	....	"	230-240 d.	69	....	A., 136, 64	vi., 965
β -Brompropylene	$\text{CH}_2:\text{CBr}.\text{CH}_3$	$\text{C}_3\text{H}_5\text{Br}$	48-49	Liquid	Reboul	C. R., 74, 669, 944	vii., 51; 25, 393
"	"	"	48	....	"	C. R., 74, 613	28, 683
β -	"	"	48-49	....	"	B. S. [2], 17, 351	vii., 1017
"	"	"	48-49 (710)	....	"	B. S. [2], 16, 50	"
"	"	"	48	....	"	C. R., 79, 317	28, 50
"	"	"	47-48 (742)	Liquid	"	A. C. [5], 14, 479	36, 130
α -	$\text{CHBr}:\text{CH}.\text{CH}_3$	"	54	....	Vogt	....	vi., 91
"	"	"	56-58	....	Linnemann	A., 136, 55	vi., 965
"	"	"	56.5	....	"	A., 138, 122	vi., 967
"	"	"	56-59	....	"	A., 136, 55	"
"	"	"	54	....	Reboul	B. S. [2], 14, 50	vii., 1017
"	"	"	54	....	Sawitsch	C. R., 52, 399	"
α -	"	"	59-63 c.	....	Perkin	45, 542	"
"	"	"	57.6 c. (760)	....	Linnemann	A., 161, 43	vii., 1017
"	"	"	59.5-60 (740)	....	Reboul	C. R., 79, 317; A. C. [5], 14, 479	28, 50; 36, 130
"	"	"	62	....	Reynolds	....	vi., 91
Allyl bromide	$\text{CH}_2:\text{CH}.\text{CH}_2\text{Br}$	"	62	....	Cahours	J., 3, 496	i., 141
"	"	"	70	....	Tollens & Henninger	Z. C., 12, 88	"
"	"	"	70	....	Henry	Z. C., 13, 575	"
"	"	"	70-71	....	Hübner & Müller	Z. C., 13, 341	"
"	"	"	70-71 (753)	....	Tollens	A., 156, 153; B. S. [2], 9, 397	vi., 91
"	"	"	70	....	Oppenheim	G. J. C., 1869	"
"	"	"	70-71 c.	....	Perkin	45, 542	"
Tribrompropane	....	$\text{C}_3\text{H}_5\text{Br}_3$	175-180	Liquid	Berthelot & De Luca	A. C. [3], 48, 304	i., 668; vii., 210
"	$\text{CH}_3.\text{CBr}_2.\text{CH}_2\text{Br}$	"	190	Liquid	Reboul	B. S. [2], 16, 50; C. R., 79, 317	vii., 1017; 28, 50
"	"	"	190-191 c.	....	"	A. C. [5], 14, 476	36, 130
"	From $\text{CH}_3.\text{CHBr}.\text{CH}_2\text{Br}$	"	194-196	....	Linnemann	J., 18, 490	vi., 965
"	"	"	192	....	Cahours	J., 3, 496	"
"	"	"	195	....	Wurtz	J., 10, 462	"
"	$\text{CH}_3.\text{CHBr}.\text{CHBr}_2$	"	200-201 c.	....	Reboul	C. R., 79, 317; A. C. [5], 14, 481	28, 50; 36, 131
Tribromhydrin	$\text{CH}_2\text{Br}.\text{CHBr}.\text{CH}_2\text{Br}$	"	217-218	16	Wurtz	A. C., 3, 60, 84	i., 141
"	"	"	219-221	16-17	Henry	A., 154, 370	vii., 209
"	"	"	215-220	....	Reboul	C. R., 92, 1465	"
"	"	"	abt. 240	....	Perrot	J., 11, 395	"
"	"	"	216-220	....	Tollens	A., 156, 168	"
Dibrompropane	$\text{CH}_3.\text{CBr}_2.\text{CH}_3$	$\text{C}_3\text{H}_6\text{Br}_2$	113-116	....	Butlerow	A., 145, 271	vi., 967
"	"	"	114-116	....	Perkin	45, 524	"
"	"	"	114-115	Liquid	Reboul	C. R., 74, 669	25, 393; vii., 50
"	"	"	114	....	"	C. R., 74, 613	25, 683
"	"	"	115-118	....	Linnemann	A., 138, 125	vii., 1017
"	"	"	113-116	....	Friedel & Ladenburg	B. S., 5, 8	"
"	"	"	113-116	....	Gladstone & Tribe	....	27, 408
"	"	"	115	....	Reboul	C. R., 78, 1773	27, 977
"	"	"	114-114.5 (740)	....	"	A. C. [5], 14, 465	36, 129
"	"	"	114	....	"	"	36, 130
"	"	"	122	....	"	Z. C., 13, 200	"
"	$\text{CH}_3.\text{CH}_2.\text{CHBr}_2$	"	131-133	....	"	A. C. [5], 14, 467	36, 129
"	....	"	136-139	....	Gladstone & Tribe	....	41, 11

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dibromopropane	CH ₃ .CHBr.CH ₂ Br	C ₃ H ₆ Br ₂	140-144	....	Wurtz	A., 104, 245	v., 893
"	"	"	140-143	....	Linnemann	A., 136, 53	vi., 965
"	"	"	140.5	....	"	A., 138, 123	
"	"	"	141.61	Liquid	"	A., 161, 26	25, 235
"	"	"	141-143	....	Butlerow	A., 145, 271	vi., 967
"	"	"	143	....	Friedel and Silva	C. R., 73, 1379	25, 135
"	"	"	141.61	....	Linnemann	A., 161, 43	25, 237
"	"	"	142.65	....	Erlenmeyer	A., 139, 226	
"	"	"	143	....	Reynolds	J., 3, 495	vii., 1017
"	"	"	142-142.3 c.; 121.8-122.5 (330)	....	Perkin	....	45, 523
"	"	"	143	....	Reboul	C. R., 76, 1270	26, 1016
"	"	"	143-145	....	"	C. R., 74, 613	25, 683
"	"	"	141-143	....	Friedel & Ladenburg	B. S., 5, 8	
"	"	"	142-143	....	Jahn	B., 13, 983	36, 794
"	"	"	142-143	....	"	B., 13, 2111	
"	"	"	142	....	"	B., 13, 2113	
"	"	"	143	....	"	B., 13, 2116	
"	"	"	141.6	....	Zander	A., 214, 175	
"	"	"	140-141	....	Friedel & Ladenburg	B. S., 5, 8	
"	"	"	142	....	Kekulé & Fleischer	B., 6, 1087	27, 66
"	"	"	141-143	....	Gladstone & Tribe	....	27, 408
"	"	"	142-143	....	" "	....	"
"	"	"	145	....	Cahours	J., 3, 496	
"	"	"	143	....	Reboul	C. R., 78, 1773	27, 977
"	"	"	143	....	"	A. C. [5], 14, 453	36, 129
"	"	"	141	....	Hartmann	J. p. [2], 16, 383	34, 211
"	"	"	143-145	....	Hofmann	A., 77, 162	
"	CH ₂ Br.CH ₂ .CH ₂ Br	"	160-163(719)	Liquid	Geromont	A., 158, 370; B., 4, 549	iii., 49; 42, 157; 24, 697
"	"	"	161-163	....	Niederist	M. C., 3, 838	44, 450
"	"	"	165.5-167 c. (743); 135.5- 136.5 c. (330)	....	Perkin	....	45, 525
"	"	"	160-165	....	Zander	A., 214, 176	
"	"	"	164.5-165.5 (731)	Liquid	Freund	M. C. [2], 639	42, 157
"	"	"	162-163	....	Reboul	C. R., 76, 1270	26, 1016
"	"	"	162	....	"	C. R., 74, 613	25, 683
"	"	"	165	....	"	C. R., 78, 1773	27, 977
"	"	"	165 c.	....	"	C. R., 79, 169	27, 1153
"	"	"	164-165	....	"	A. C. [5], 14, 472	36, 129
"	(Mixture ?)	"	141-161	....	Linnemann	A., 161, 26	vii., 1013
Isopropyl bromide	CH ₃ .CHBr.CH ₃	C ₃ H ₇ Br	60-63 (739)	....	"	A., 161, 57	v., 890; vi., 965
"	"	"	60-63	....	Kekulé & Schrötter	B., 12, 2280	
"	"	"	60-63	....	Gustavson	B. S. [2], 26, 346	34, 49
"	"	"	59-63	....	Zander	A., 214, 160	
"	"	"	59-62	....	Aronstein	R. T., 1, 134	44, 173
"	"	"	60-63	....	"	B., 14, 608	
"	"	"	59 c.	....	Perkin	....	45, 455
Propyl bromide	CH ₃ .CH ₂ .CH ₂ Br	"	71-71.5	....	Fittig, König, and Schäffer	Z. C. [2], 4, 44	vi., 963
"	"	"	70.3-70.8	....	Chapman & Smith	22, 198	"
"	"	"	68-72	....	Linnemann	A., 148, 259	vi., 964
"	"	"	71	....	Kekulé & Schrötter	B., 12, 2280	
"	"	"	71-71.5	....	Aronstein	B., 14, 608	
"	"	"	70.8-71 c.	....	Perkin	....	45, 455
"	"	"	70-71	....	Rossi	A., 159, 79	vi., 964
"	"	"	70-71 (749)	....	"	G. I., 1, 230	24, 1032
"	"	"	72	....	Pierre and Puchot	A. C. [4], 22, 284	vi., 964
"	"	"	70-72	....	Zander	A., 214, 159	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Propyl bromide	$\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$	$\text{C}_3\text{H}_7\text{Br}$	70.82	....	Linnemann	A., 162, 43	vii., 203
" "	"	"	70.8	....	"	A., 161, 26	vii., 1013
" "	"	"	72	....	Pierre and Puchot	J. Ph. [4], 13, 93	vii., 1013; 24, 524
Hexabrombutylene ....	....	$\text{C}_4\text{H}_2\text{Br}_6$	....	52-53	Merz and Weith	B., 11, 2246	36, 303
Hexabromisobutane ....	....	$\text{C}_4\text{H}_4\text{Br}_6$	....	108-109	" "	B., 11, 2245	36, 302
Dibrombutylene ....	....	$\text{C}_4\text{H}_6\text{Br}_2$	140-150	....	Caventou	A., 127, 96; J., 16, 506	
Crotonylene dibromide ....	....	"	148-158	....	"	A., 127, 349	ii., 965
Butine tetrabromide....	$\text{CHBr}_2\text{CBr}_2\text{CH}_2\text{Me}$	$\text{C}_4\text{H}_6\text{Br}_4$	....	113-115	Prunier	C. R., 76, 1410	vii., 401
" " ....	....	"	115-116	....	Caventou	B., 6, 70	
" " ....	....	"	99	....	....	A., 172, 291	
Bromisobutylene	$\text{CMe}_2\text{:CHBr}$	$\text{C}_4\text{H}_7\text{Br}$	88-92	....	Butlerow	Z. C. [2], 6, 524	vii., 224, 401
Brombutylene ....	....	"	82-92	....	Caventou	A., 127, 96; J., 16, 506	
β- " ....	....	"	86-88	....	....	A., 195, 126	
" " ....	....	"	97 p. d.	....	Jaffé	A., 135, 301	vi., 158
" dibromide ....	....	$\text{C}_4\text{H}_7\text{Br}_3$	208-215 d.	....	Caventou	A., 127, 96; J., 16, 506	
Bromisobutylene dibromide....	$\text{Me}_2\text{CBr.CHBr}_2$	"	214-218	....	Linnemann & Zotta	A., 162, 33	25, 479
γ -Iso-butylene dibromide	$\text{CMe}_2\text{Br.CH}_2\text{Br}$	$\text{C}_4\text{H}_3\text{Br}_2$	149	....	Linnemann	A., 161, 178	vii., 216; 25, 396
" "	"	"	149.7 c.	....	"	A., 162, 12	25, 476
" "	"	"	146-150	....	Linnemann & Zotta	A., 162, 33	25, 478
" "	"	"	148-149	....	Linnemann	A., 162, 36	
" "	"	"	148-149	....	Hofmann	B., 7, 515	27, 792
γ - " "	"	"	147-150(760); 118-120 (313)	....	Perkin	....	45, 525
" " "	"	"	146-148	....	Studer	B., 14, 2188	
" " "	"	"	149-152	....	Paternò	G. I., 12, 337; B., 16, 802	
" " "	"	"	147-148	....	Nevolé	B. S. [2], 24, 122	29, 59
" " "	"	"	147-148	....	"	C. R., 83, 65 & 146	30, 621
" " "	"	"	148	....	Grosheintz	B. S. [2], 29, 201	34, 562
" " "	"	"	148	....	Le Bel and Greene	B. S. [2], 29, 306	34, 773
Butylene dibromide ....	....	"	153	Liquid	Puchot	A. C. [5], 28, 507	46, 167
β - " "	$\text{CHEtBr.CH}_2\text{Br}$	"	158	....	Wurtz & De Lynes	J., 17, 500	v., 739
" " "	"	"	156-159 (755)	....	Wurtz	B. S. [2], 8, 268	vi., 376
" " "	"	"	156-159	....	Linnemann	A., 161, 190	25, 396
" " "	" (1)	"	158-160	....	Chapman	20, 28	25, 397
" " "	"	"	158-159	....	Nevolé	B. S. [2], 24, 122	29, 59
" " "	"	"	158	....	Grosheintz	B. S. [2], 39, 201	34, 562
" " "	"	"	160	....	Cahours	J., 3, 402	
" " "	"	"	156-158	....	Le Bel and Greene	B. S. [2], 29, 306	34, 774
" " "	"	"	156-160	....	" "	"	"
" " "	"	"	156	....	" "	"	34, 773
" " "	"	$\text{C}_4\text{H}_7\text{Br}$	164-165	....	Nevolé	C. R., 85, 514	32, 868
" " "	"	"	164-165	....	"	"	"
α - " "	CHMe.Br.CHMeBr	$\text{C}_4\text{H}_3\text{Br}_2$	166	....	Wurtz	Z. C. [2], 5, 407; A., 152, 23	vi., 377; 25, 396
" " "	"	"	165.5-166	....	"	B. S. [2], 8, 265; J., 22, 365	34, 562; vii., 216
" " "	"	"	166-167	....	Linnemann	A., 161, 199	25, 396; vii., 216
" " "	"	"	164-165 (757.5)	....	Grabowsky and Saytzeff	A., 179, 331	29, 542
" " "	"	"	168	....	Grosheintz	B. S. [2], 39, 201	34, 562
" " "	"	"	166	....	Le Bel and Greene	B. S. [2], 29, 306	34, 773
δ- " " ....	....	" (1)	175-195	....	Grosheintz	B. S. [2], 29, 201	34, 562
Butyl bromide	CMe_3Br	$\text{C}_4\text{H}_9\text{Br}$	73-74	Liquid	Reboul	C. R., 93, 69	40, 1025
" "	"	"	72	Roozeboom	B., 14, 2396	42, 154

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Butyl bromide	CMe ₃ Br	C ₄ H ₉ Br	70.5-72.5 c.	Perkin	45, 457
Isobutyl bromide	CHMe ₂ .CH ₂ Br	"	89	Wurtz	A., 93, 114	v., 734
" "	"	"	92	....	Chapman and Smith	22, 153	vi., 373
" "	"	"	87-88	....	Reimer	B., 3, 756; Z. C. [2], 7, 26	vii., 222; 24, 121
" "	"	"	89	....	Lieben and Rossi	G. J. C., 1872	
" "	"	"	90.5	....	Pierre and Puchot	J. Ph. [4], 139; A., 163, 278	vii., 218; 24, 524
" "	"	"	92.33 c.	....	Linnemann	A., 162, 34	25, 476
" "	"	"	91.3-92.3 c.	....	Perkin	....	45, 457
" "	"	"	92	....	Williams	....	31, 541
Butyl bromide	CH ₂ Me.CH ₂ .CH ₂ Br	"	100.4 (744)	....	Lieben and Rossi	A., 158, 137	24, 520; vii., 216
" "	"	"	99.88 c.	....	Linnemann	A., 162, 39	vii., 203
" "	"	"	99.94	....	"	A., 161, 198	25, 396
" "	"	"	99.83 c.	....	"	"	"
Bromvalerylene ....	....	C ₅ H ₇ Br	125-130 d.	....	Reboul	A., 135, 373	v., 982
Valerylene dibromide ....	....	C ₅ H ₅ Br ₂	166-172	....	"	A., 135, 372	"
" " ....	....	"	170-175	....	"	A., 132, 121	"
Isoprene dibromide ....	....	"	175-180	....	Bouchardat	C. R., 89, 1117	38, 323
Isopropyl acetylene dibromide	Pr ^β .CBr : CHBr	"	175	1. - 20	Bruylants	B., 8, 407	
Propyl " "	Pr ^α .CBr : CHBr	"	190	....	"	B., 8, 411	
Valerylene tetrabromide ....	....	C ₅ H ₈ Br ₄	....	b. - 10	Reboul	A., 132, 120	v., 982
Isoprene tetrabromide	CH ₂ Br.CBrMe.CHBr.CH ₂ Br	"	....	1. - 18	Tilden	C. N., 46, 120	44, 75
" " ....	....	"	....	1. - 20	"	45, 414	
Pentine tetrabromide ....	....	"	....	1. - 20	"	"	
Isopropyl acetylene tetrabromide	Pr ^β .CBr ₂ .CHBr ₂	"	275	1. - 20	Bruylants	B., 8, 407	
Propylacetylenetetrabromide	Pr ^α .CBr ₂ .CHBr ₂	"	275	1. - 15	"	B., 8, 412	
Piperylene tetrabromide	CMe ₂ Br.CBr ₂ .CH ₂ Br (?)	"	....	114.5	Hoffmann	B., 14, 665	40, 621
" " ....	"	"	....	114.5	Schotten	B., 15, 424	
Isoprene hydrobromide ....	....	C ₅ H ₉ Br	104-105	....	Bouchardat	C. R., 89, 1117	38, 323
Valerylene hydrobromide ....	....	"	112	....	Reboul	A. & Z. C. [1867], 173	v., 982
" " ....	....	"	115	....	"	C. R., 64, 284	vi., 1123
Bromamylene ....	....	"	100-110	....	Bauer	A., 120, 167	vi., 119
" "	symmetrical	"	110-112	....	....	A., 200, 37	
" " ....	....	"	110-115	....	....	M. C., 4, 81	
" " ....	....	"	115	....	Reboul	A.	v., 982
" " ....	....	"	115	....	Bouchardat	C. R., 93, 316	40, 1114
" " ....	....	"	117-118	....	Linnemann	A., 143, 351	vi., 119
" " ....	....	" (?)	abt. 175	....	Wurtz	A., 123, 202	vi., 117
" " dibromide ....	....	C ₅ H ₉ Br ₃	....	Solid	Reboul	C. R., 58, 1058	vi., 120
Amylene dibromide	CHMe ₂ .CHBr.CH ₂ Br	C ₅ H ₁₀ Br ₂	25	....	Flavitsky & Kriloff	B. S. [2], 28, 347	34, 20
" " ....	....	"	67-70	....	Niederist	A., 196, 349	36, 700
Valerylene dihydrobromide	....	"	170-175	....	Reboul	A.	v., 982
" " ....	....	"	180 p. d.	....	"	Z. C. [1867], 173	vi., 1123
Amylene dibromide	CHEtBr.CHMeBr	"	178 p. d.	....	Wagner & Saytzeff	A., 179, 307	29, 547
" "	From iso-amylene	"	170-180	....	Wurtz	A. C. [3], 55, 458	vi., 119
" "	CHMe ₂ .CHBr.CH ₂ Br	"	170-180	....	Bruylants	B., 8, 406	
" " ....	....	"	175-180	....	Bouchardat	C. R., 93, 316	40, 1114
" " ....	....	"	170-175	....	Helbing	A., 172, 281	
" "	CMe ₂ Br.CHBr.Me	"	126-127.5 (215)	....	Perkin	....	45, 527
" " ....	....	"	184-188	....	Thorpe and Young	B., 5, 556	vii., 892; 24, 343; 25, 803
Amyl bromide	CMe ₂ Br.CH ₂ .CH ₃	C ₅ H ₁₁ Br	108-109	....	Wischnegradsky and Flawitzsky	B., 10, 405	32, 420
" "	"	"	108	....	" "	B., 10, 406	"
" "	"	"	107-109	....	Wischnegradsky	A., 190, 328	34, 394
" "	CHMe ₂ .CHBr.CH ₃	"	113 c.	Wurtz	vi., 113
" "	"	115-116	Wischnegradsky and Flawitzsky	B., 10, 406	32, 420

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Isoamyl bromide	CHMe ₂ .CH ₂ .CH ₂ Br	C ₅ H ₁₁ Br	118·7	Pierre	C. R., 27, 213	
"	"	"	118·8	Haagen	P. A., 131, 117	
"	"	"	118·7	....	Mendelejef	J. [1860], 7	vi., 110
"	"	"	121	....	Chapman & Smith	22, 198	"
"	"	"	118-124	....	Grimshaw	....	26, 310
"	"	"	119-123	....	"	....	32, 261
"	"	"	120·4 (745·2)	....	Balbiano	G. I., 6, 229	31, 209
"	"	"	120·2-120·7 c.	....	Perkin	....	45, 458
"	"	"	117-117·5	....	....	M. C., 2, 649	
Anyl bromide	CH ₃ (CH ₂) ₃ .CH ₂ Br	"	128·7 (739·4)	....	Lieben and Rossi	G. I., 1, 314; A., 159, 73	vi., 1137; 24, 1034
Pentabrombenzene	....	C ₆ HBr ₅	....	a. 240	....	....	vi., 263
"	....	"	....	260	Diehl	B., 11, 191	
Tetrabrombenzene	Br ₄ =1.2.3.5	C ₆ H ₂ Br ₄	....	95	Körner	....	vi., 263
"	"	"	....	95-96	Losanitsch	B., 15, 473	
"	"	"	....	98	Mayer	A., 13, 7, 218	vi., 263
"	"	"	329	97·2	Körner	G. I., 4, 305	29, 212
"	"	"	300-320	96, 98, & 99·5	Wurster & Nölting	B., 7, 1564	29, 389
"	"	"	....	98·5	Richter	B., 8, 1429	29, 390
"	"	"	....	98·5	Limpricht	B., 10, 1540; A., 191, 175	34, 220, 494
"	"	"	....	98	Silberstein	J. p. C., 27, 118	44, 660
"	"	"	....	98·5	"	"	44, 661
"	" = (?)	"	....	136-138	....	M. C., 2, 194	
"	"	"	....	137-140	Kekulé	A., 137, 172	vi., 263
"	"	"	....	160	Claus and Ladl	B., 14, 1169	40, 814
"	"	"	....	160	Halberstadt	B., 14, 911	
"	"	"	....	s. abt. 160	Riche and Bérard	A., 133, 51	iv., 414
"	"	"	....	175	Meyer	B., 15, 46	42, 607
Tribrombenzene	Br ₃ =1.2.4	C ₆ H ₃ Br ₃	266-280	44	"	A., 137, 224	vi., 263
"	"	"	....	44	Stüber	B., 4, 969	25, 305
"	"	"	268-272 u. c.	43-44	Wurster	B., 6, 1490	27, 369
"	"	"	....	43	"	A., 173, 145	28, 756
"	"	"	....	44	Wroblewski	B., 7, 10, 61	28, 58
"	"	"	....	44	"	A., 192, 196	34, 978
"	"	"	275-276 u. c.	44	Körner	G. I., 4, 305	29, 223
"	"	"	....	44	Limpricht	B., 10, 1538; A., 191, 175	34, 220, 493
"	" = 1.2.3	"	....	87·4	Körner]	G. I., 4, 305	29, 224
"	" = 1.3.5	"	....	115	Stüber	B., 4, 961	25, 305
"	"	"	....	118·5	"	"	"
"	"	"	s. a. 278 u. c.	119·6	Körner	G. I., 4, 305	29, 224
"	"	"	....	119	Silberstein	J. p. C., 27, 104	44, 660
"	"	"	....	119-120	Losanitsch	B., 15, 474	42, 955
"	"	"	....	118·5	Jackson	B., 8, 1172	29, 390
"	"	"	....	118·5	Reinke	A., 186, 271	32, 466
"	"	"	....	118·5	Limpricht	B., 10, 1538; A., 191, 206	34, 220, 494
Dibrombenzene	Br.Br=1.3	C ₆ H ₄ Br ₂	abt. 215 u. c.	1. -28	Meyer and Stüber	B., 4, 958	25, 303; vii., 139
"	"	"	....	1. -25	Wurster	B., 6, 1492	27, 369
"	"	"	214-220	1. -27	Wurster and Grubenmann	B., 7, 419	27, 691
"	"	"	....	1. -28	Meyer	B., 7, 1560	28, 758
"	"	"	219·4 (754·8)	1. -20	Körner	G. I., 4, 305	29, 214
"	"	"	216·4	....	(?)	(?)
"	"	"	223-224	1. -28	(?)	(?)	
"	" = (?)	"	217 u. c.	Liquid	Dumreicher	B., 15, 1867	
"	" = 1.2	"	213-215 c.	-1	Riese	B., 2, 61	vi., 263; 25, 304
"	"	"	209-211 c.	"	A., 164, 176	vii., 139; 26, 64
"	"	"	223·8 (751·6)	-1	Körner	G. I., 4, 305	29, 214
"	" = 1.4	"	219	89	Couper	A. C. [3], 52, 309	i., 543; iv., 414

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Dibrombenzene	Br.Br=1.4	C ₆ H ₄ Br ₂	219	89	Riese	B., 2, 61	vi., 263
"	" "	"	89	Dumreicher	B., 15, 33	42, 606
"	" "	"	215-217	88 u.c.	"	B., 15, 1867	
"	" "	"	....	89	Walker and Zincké	B., 5, 116	25, 418
"	" "	"	219	....	Körner	G. I., 1874, 331	vii., 925
"	" "	"	....	89	Kekulé	A., 137, 173	
"	" "	"	218-219	88.5	Meyer	A., 156, 281	vii., 925
"	" "	"	....	89	Richter	B., 6, 373	26, 1133
"	" "	"	....	89	Wurster	A., 173, 145	28, 758
"	" "	"	220	89	Halberstadt	B., 14, 911	
"	" "	"	218.6 c.	89.3	Körner	G. I., 4, 305	29, 213
"	" "	"	(757.66)				
"	" "	"	218.3-218.4 c.	....	"	"	"
"	" "	"	(747.2)				
"	" "	"	....	89	Borns	A., 187, 350	32, 768
"	" "	"	....	85-86	Neville & Winther	....	37, 435
"	" "	"	....	89	" "	....	"
"	" "	"	....	87.035	Mills	P. R. S. [1881], 205	
Octobromhexylene	....	C ₆ H ₄ Br ₈	....	184	Merz and Weith	B., 11, 2249	36, 303
(?)	....	C ₆ H ₄ Br ₂	120-125	....	Wahl	B., 10, 1234	
Brombenzene	....	C ₆ H ₅ Br	150	b. -20	Conper	A. C. [3] 52, 309	i., 543
"	....	"	153.6	....	Weger	....
"	....	"	154	....	Heumann & Kochlin	B., 16, 1625	44, 1051
"	....	"	154	....	Ladenburg	B., 7, 1685	
"	....	"	152-154	....	Fittig	A., 121, 361	iv., 414
"	....	"	154.86-155.52	....	Adrienz	B., 6, 443	26, 886
"	....	"	155	....	Krafft	B., 8, 1044	29, 71
"	....	"	154.6-155	....	Brühl	A., 200, 139	38, 296
"	....	"	(742)				
"	....	"	155-166	....	Riche	A., 121, 362	
"	....	"	156.5	....	Meyer	A., 137, 220	
Octobromhexane	CHBr ₂ .(CHBr) ₄ .CHBr ₂	C ₆ H ₆ Br ₈	....	135	Merz and Weith	B., 11, 2250	36, 303
Dipropargyloctobromide	CHBr ₂ .CBr ₂ .(CH ₂) ₂ .CBr ₂ .CHBr ₂	"	n. v.	140-141	Henry	B., 6, 959; B., 7, 22	vii., 1008
"	....	"	....	140-141	"	J. p. C. [2], 9, 321	27, 456, 1078
Bromdiallylene	....	C ₆ H ₇ Br	abt. 150	Liquid	"	B., 14, 400	40, 565
Dibromdiallyl	C ₃ H ₄ Br.C ₃ H ₄ Br	C ₆ H ₈ Br ₂	205-210	....	"	B., 6, 956	26, 1215
"	"	"	210 c.	....	"	J. p. C. [2], 8, 57	27, 351
Dibromdiallyl tetrabromide	....	C ₆ H ₈ Br ₆	....	76-77	"	B., 7, 23; J. p. C. [2], 9, 231	27, 456, 1078
Hexabromhexane	CH ₂ Br.(CHBr) ₄ .CH ₂ Br	"	....	152	Merz and Weith	B., 11, 2250	36, 303
Hexine dibromide	Me.CBr.CBr.(CH ₂) ₂ .Me	C ₆ H ₁₀ Br ₂	d. 130	l. -20	Hecht	B., 11, 1054	34, 717
Diallyl tetrabromide	CH ₂ Br.CHBr.(CH ₂) ₂ .CHBr.CH ₂ Br	C ₆ H ₁₀ Br ₄	....	62.5-63.5	Wagner and Tollens	B., 6, 589	26, 1122; vii., 46
"	"	"	....	60-63.5	" "	"	"
Tetrabromhexane	....	"	318 c.	112	....	A., 139, 251	
"	....	"	....	120	....	Z. C. [1871], 699	
"	From iododipropylene	"	....	142	Bouchardat	C. R., 74, 809	25, 410
Bromhexylene	....	C ₆ H ₁₁ Br	99-100	Liquid	Destrem	A. C. [5], 27, 5	
"	From petroleum	"	138	....	Reboul and Truchot	A., 172, 70	27, 783
"	....	"	135-140	....	Cuventon	"	"
β-	" mannite	"	138-141	....	Hecht and Strauss	"	"
"	"	"	(738.5)				
β-bromhexylene dibromide	....	C ₆ H ₁₁ Br ₃	125-135 c.	....	....	A., 135, 126	
Hexylene dibromide	CMe ₂ Br.CMe ₂ Br	C ₆ H ₁₂ Br ₂	....	140 p. d.	Pawlow	B., 11, 513	34, 563
"	"	"	....	140	Eltekoff	B., 16, 399	
"	Pr ^β .CHBr.CHBr.Me (?)	"	....	139-140	"	B., 11, 412	34, 482
"	CMe ₂ Br.CMe ₂ Br	"	....	168-169	Rizza	J. R. [1882], 99	42, 491
"	....	"	....	169	Kaschirsky	B., 11, 984	36, 46
"	....	"	....	169-170	"	C. C. [1881], 278	42, 37
"	....	"	180-190	....	Helbing	A., 172, 281	
"	From petroleum	"	192-198	....	Pelouze & Cahours	J., 16, 526	24, 343

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hexylene dibromide....	From mannite	$C_6H_{12}Br_2$	195-197	....	Hecht and Strauss	A., 172, 67	27, 783
" "	" paraffin	"	195-200	....	Thorpe and Young	B., 5, 556	25, 803; vii., 892
" "	....	"	190-200	....	....	A., 128, 228	
" "	....	"	210-212	....	....	J. [1862], 411	
Hexylidene dibromide	....	"	210-212	....	....	A., 124, 293; 165, 9	
Hexyl bromide	....	"	205	....	Thorpe and Young	A., 165, 1	
" "	$C_4H_9CHBr.Me$	$C_6H_{13}Br$	143-145	....	Schorlemmer	P. T., i. [1878]	32, 866
" "	$CHMePr^a.CH_2Br$	"	142-145	....	....	M., 4, 34	
" "	$CH_3(CH_2)_4CH_2Br$	"	155.5 (743.87)	....	Lieben and Janeck	A., 187, 137	32, 880
Pentabromtoluene	C_6Br_5Me	$C_7H_5Br_5$	....	282-283	Gustavson	B. S. [2], 28, 347	34, 48
"	....	"	....	282-283	"	B. S. [2], 26, 346	34, 49
"	....	"	....	283-285	Neville & Winther	....	37, 450
Tetrabromtoluene	$Me.Br_4=1.2.3.4.6$	$C_7H_4Br_4$	....	105-108	" "	B., 13, 975	37, 449
"	"	"	....	106.8-108	" "	"	"
"	" =1.2.3.4.5	"	....	111-111.5	" "	B., 13, 976	37, 451
"	" =1.2.3.5.6	"	....	116-117	" "	B., 13, 975	"
Tribromtoluene	$Me.Br_3=1.3.4.5$	$C_7H_5Br_3$	260	l. -20	Wroblewsky	A., 168, 194	27, 54
"	" =1.2.3.4	"	....	44.4-44.7	Neville & Winther	B., 13, 975	37, 451
"	" =1.2.3.5	"	....	52-53	" "	B., 13, 974	"
"	" =1.2.3.6	"	....	58-59	" "	"	"
"	" =1.2.4.6	"	....	66	" "	B., 13, 975	"
"	" =1.2.4.6	"	290	70	Wroblewsky	A., 168, 195	27, 54
"	" =1.3.5.?	"	290	70	"	Z. C. [2], 7, 271	24, 1062
"	" =1.3.4.5	"	....	88-89	Neville & Winther	B., 13, 974	37, 451
"	" =1.2.4.5	"	....	110-111.5	" "	....	37, 445
"	"	"	....	111.2-112	" "	....	37, 451
"	"	"	....	112-113.6	" "	B., 14, 417	39, 83
"	"	"	....	111.8-112.8	" "	"	39, 84
"	"	"	....	111.2-112.8	" "	B., 13, 974	"
"	" =?	"	....	150	Pfankuch	J. p. C. [2], 6, 108	26, 363; vii., 656
Benzylene dibromide	$C_6H_6.CHBr_2$	$C_7H_6Br_2$	130-140 (20)	Liquid	Michaelson and Lippmann	B. S. [2], 4, 251	vi., 281
Brombenzyl bromide	$C_6H_4.Br.(CH_2Br)=1.2$	"	....	l. -15	Jackson	B., 9, 932	30, 512
" "	"	"	....	30	Jackson and White	B., 13, 1218	38, 879
" "	" =1.3	"	....	41	Jackson	B., 9, 932	30, 512
" "	" =1.4	"	....	61	"	B., 9, 931	"
Dibromtoluene	$Me.Br_2=1.2.(3?)$	"	236	b. -20	Wroblewsky	Z. C. [2], 6, 239	vi., 280
"	"	"	237	l. -20	"	Z. C. [2], 7, 135	24, 564
"	"	"	238-239	l. -20	"	A., 168, 147	vii., 1165
"	" =1.3.5	"	246	l. -20	"	Z. C. [2], 7, 271	24, 1062; vii., 1165
"	" =1.2.4	"	238-239	l. -20	"	"	vii., 1165
"	"	"	237	....	"	A., 168, 185	"
"	"	"	....	Liquid	Neville & Winther	....	37, 451
"	" =1.2.6	"	246	l. -20	Wroblewsky	A., 168, 191	27, 54
"	"	"	246	Liquid	Neville & Winther	B., 13, 973	37, 439
"	"	"	....	l. -10	" "	....	37, 446
"	"	"	....	Liquid	" "	....	37, 451
"	" =1.2.6 or 1.2.4	"	....	Liquid	" "	....	37, 440
"	" =1.3.4	"	238-239	l. -20	Wroblewsky	A., 168, 184	27, 53
"	"	"	240	....	Burghard	B., 8, 560	"
"	"	"	....	Liquid	Neville & Winther	B., 13, 964	37, 451
"	"	"	239-241	l. f. m.	Jannasch	A., 176, 287	28, 889
"	" =1.2.5 (?)	"	236	l. -20	Wroblewsky	A., 168, 185	27, 53
"	"	"	....	Liquid	Neville & Winther	B., 13, 973	37, 451
"	"	"	240	....	Wroblewsky	A., 168, 147	27, 53
"	" =1.2.3	"	....	27.4-27.8	Neville & Winther	B., 13, 965	37, 434
"	"	"	....	27.4-28	" "	B., 13, 964	"
"	" =1.3.5	"	246	39	" "	B., 13, 966	37, 437

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dibromtoluene	Me.Br ₂ =1.3.5	C ₇ H ₆ Br ₂	....	39	Neville & Winther	B., 13, 966	37, 437
"	" =1.2.3 or 5	"	249	42.5	Wroblewsky	Z. C. [2], 7, 210	vii., 1165, 1177
"	" "	"	239	42.5	"	A., 168, 147	24, 686; 25, 698
"	" =1.3.5	"	241	60	"	Z. C. [2], 7, 202 ; A., 168, 190	24, 686; 27, 54; vii., 1165
"	" = (?)	"	abt. 245	107-108	Fittig	A., 147, 41	vi., 280
"	" =1.3.4	"	245	107-108	Wroblewsky	Z. C. [2]	vii., 1165
Hexbromheptene ....	....	C ₇ H ₆ Br ₆	....	134	Rénard	C. R., 91, 419	38, 893
Dibromtoluene tetrabromide ....	....	"	....	134	"	A. C. [6], 1, 223	46, 844
Benzylbromide	C ₆ H ₅ .CH ₂ Br	C ₇ H ₇ Br	198-199	....	Kekulé	A., 137, 190	v., 853
"	"	"	201.5-202.5 c.	....	"	J., 20, 662	vi., 279
"	"	"	202	....	Lauth and Grimaux	B. S., 7, 108	v., 853
Bromtoluene	Me.Br=1.2	"	181-183	l. -20	Rosenstiehl and Nikiforoff	Z. C. [2], 5, 635	vi., 280
"	" "	"	182	Liquid	Wroblewsky	Z. C. [2], 7, 135	24, 564
"	" "	"	182-183	l. -20	"	A., 168, 171	27, 53
"	" "	"	181-182	Liquid	Hübner & Retschy	Z. C., 7, 618	25, 697; vii., 1164
"	" "	"	179-180	....	Jannasch & Hübner	Z. C. [2], 7, 706 ; A., 170, 117	25, 893; 27, 257
"	" "	"	180.5-181	Liquid	Longuinine	B., 4, 516	24, 685; vii., 1164
"	" "	"	180	....	Reyman	B. S. [2], 26, 532	31, 459
"	" "	"	181-182	Liquid	Hübner and Post	A., 169, 1	27, 58
"	" "	"	182	....	Körner	G. I., 4, 305	29, 216
"	" "	"	182-183	Liquid	Neville & Winther	....	37, 451
"	" =1. (?)	"	179	....	Glinzer and Fittig	J., 18, 538	v., 853
"	" "	"	181	....	Lauth and Grimaux	B. S.	"
"	" "	"	182.5-183 u.c. 185-185.5 c.	....	Kekulé	A., 137, 198 ; J., 20, 663	v., 853; vi., 279
"	" =1.3	"	182	Liquid	Hübner & Retschy	Z. C. [2], 7, 618	25, 697
"	" "	"	182-183	l.-20	Wroblewsky	Z. C. [2], 7, 609	25, 698 ; vii., 1164
"	" "	"	181-182	l.-20	"	A., 168, 155	27, 51
"	" "	"	182	....	"	A., 192, 196	34, 977
"	" "	"	183.5 c.	....	Grite	A., 177, 231	29, 72
"	" "	"	184-184.1 (754.1)	....	Körner	G. I., 4, 305	29, 216
"	" "	"	184.3 (758.74)	....	"	"	"
"	" "	"	184	Liquid	Neville & Winther	....	37, 451
"	" =1.4	"	....	28.8	Gissmann	A., 216, 200	44, 335
"	" "	"	185.2	28-29	Hübner & Retschy	Z. C. [2], 7, 618	25, 696 ; vii., 1164
" ....	" "	"	....	25.4	Körner	C. R., 68, 824	vii., 1175
"	" "	"	184.6 (760.74)	28.2	"	G. I., 4, 305	29, 216
"	" "	"	181-183	28.5	Hübner & Wallach	A., 154, 296	vi., 280
"	" "	"	185	28-29	Hübner and Terry	Z. C. [2], 7, 232	25, 1005
"	" "	"	185.2	28-29	Hübner and Post	A., 169, 6	27, 56
" ....	" "	"	....	28	Hübner and Roos	B., 6, 799	27, 165
" ....	" "	"	....	29	Fittica	A., 172, 303	28, 60
" ....	" "	"	....	29	Beckett and Wright	....	29, 6
"	" "	"	185	28.5	Neville & Winther	....	37, 451
Methylpropylallylene tetra- bromide	CHMeBr.CBr ₂ .CHPrBr	C ₇ H ₁₂ Br ₄	....	Liquid	Morris	41, 179	
Bromheptylene ....	....	C ₇ H ₁₂ Br	abt. 130	....	Cloez	C. R., 78, 1565	27, 973
"	From CH ₃ .(CH ₂) ₄ .C:CH	"	165	....	Bruylants	B., 8, 409	
Heptylene dibromide ....	....	C ₇ H ₁₄ Br ₂	d.	....	Thorpe and Young	B., 5, 556	25, 803 ; vii., 892
" "	....	"	....	Liquid	Kaschirsky	B., 11, 984	36, 46
Heptyl bromide	Me ₃ C.CMe ₂ Br.	C ₇ H ₁₅ Br	....	150	"	C. C. [1881], 275	42, 37
" "	"	"	....	152	....	A., 209, 81	
" "	C ₆ H ₁₁ .CHBr.Me	"	165-167	....	Schorlemmer	P. T. [1878], 1	32, 866
" "	CH ₃ (CH ₂) ₄ .CHBr.Me	"	165-167	....	Venables	B., 13, 1650	40, 82
" "	Me.(CH ₂) ₅ .CH ₂ Br	"	178.5 (750.6)	Liquid	Cross	A., 189, 3	32, 126

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
<i>a</i> -Bromstyrene	$C_6H_5.CH: CBr$	C_8H_7Br	d.	Liquid	Glaser	A., 154, 168; B., 6, 493	
β - "	$C_6H_5.CBr: CH_2$	"	117	....	Barisch	J. p. C. [2], 20, 173	38, 43
β - "	"	"	219-221 c.	....	....	A., 195, 142	
β - "	"	"	150-160 (75)	....	....	A., 216, 291	
β - "	"	"	228	Liquid	Glaser	A., 154, 168	vii., 1101
" dibromide	$C_6H_5.CBr_2.CH_2Br$	$C_8H_7Br_3$	....	37-38	....	A., 195, 142	
Styrolene dibromide	$C_6H_5.CHBr.CH_2Br$	$C_8H_7Br_2$	a. 200	67	....	....	i., 982
" " ....	"	"	....	68-69	Breuer and Zincké	B., 11, 1399	34, 885
" " ....	"	"	....	73	Miller	B., 11, 1451	"
" " ....	"	"	....	73.5-74	Breuer and Zincké	B., 11, 1400	"
" " ....	"	"	....	68-69	Radziszewsky	B., 6, 493	26, 1028
" " ....	"	"	....	74-74.5	...	A., 216, 288	
Dibromxylene	$Me_2.Br_2=1.3.?$	"	256	69	Fittig, Ahrens, and Mattheides	A., 147, 25	vi., 294
"	" =1.3.4.6	"	....	72	Jacobsen and Weinberg	B., 11, 1534	36, 61
"	" =1.3.?	"	255-256	72	....	A., 156, 236	
"	" = (?)	"	252	....	....	A., 192, 216	
"	" =1.4.2.5	"	....	72-73	Fittig, Ahrens, and Mattheides	A., 147, 26	vi., 294
" " ....	" "	"	....	75.5	Jannasch	B., 10, 1357	
Tolylene or xylylene di-bromide	$C_6H_4.(CH_2Br)_2=1.2$	"	....	93	Baeyer and Perkin	B., 17, 122	46, 753
" " ....	" "	"	....	94.6	Colson	C. R., 98, 1543	46, 1000
" "	" " (?)	"	240-250	143-143.5	Radziszewsky and Wispek	B., 15, 1747	42, 1283
" "	" =1.3	"	240-250	140-141	" "	B., 15, 1745	"
" "	" =1.4	"	240-250	140	" "	B., 15, 1744	"
" " ....	" "	"	....	143	Bildermann	B., 5, 702	25, 1013
" " ....	" "	"	....	145-147	Grimaux	Z. C. [1870], 394; A. C. P. [4], 26, 331; C. R., 70, 1363	25, 817, 1013; vii., 1209
Bromxylene	$Me.Me.Br=1.4.5$	C_8H_9Br	199.5-200.5	10	Jannasch	A., 171, 82	27, 468
" ....	" "	"	....	9-10	Gissmann	A., 216, 200	44, 335
"	" =1.3.6	"	205-208	....	Weinberg	B., 11, 1062	34, 724
"	" = (?)	"	203	....	Kekulé	....	v., 1057
"	" = (?)	"	203-204	....	Fittig and Ernst	J., 18, 556	"
"	" = (?)	"	207.5	....	Kekulé	A., 137, 186	
"	" = (?)	"	212	....	Wahlforss	A., 133, 53	v., 1057
"	"	"	212	....	Beilstein	J., 17, 530	
"	" =1.3 ?	"	205-208	....	Ahrens	Z. C. [2], 5, 102	vii., 1175
"	" =1.3.4	"	203-204	....	Fittig and Ahrens	A., 147, 31	
"	" =1.3.5	"	204	1. -20	Wroblewsky	B., 9, 495	30, 406
"	" "	"	204	Liquid	"	A., 192, 215	34, 978
Ethylbrom benzene	$C_6H_4.Br.Et=1.4$	"	199	Liquid	Fittig and König	A., 144, 282	iv., 485; vi., 292
" "	" "	"	200	....	Fittig	A., 133, 226	v., 1057
" "	" "	"	204	1. f. m.	Aschenbrand	A., 216, 222	44, 320
Xylyl bromide	$C_6H_4.Me.CH_2Br=1.2$	"	216-217 (742)	Liquid	Radziszewsky and Wispek	B., 15, 1747	42, 1283
" "	" =1.3	"	215 (735)	Liquid	" "	B., 15, 1745	"
" "	" =1.4	"	218-220 (740)	31	" "	B., 15, 1743	"
<i>a</i> -Phenylethyl bromide	$Ph.CHBr.CH_3$	"	145-150 (30)	....	Hanriot & Guilbert	C. R., 98, 525	46, 733
<i>a</i> - " "	"	"	d.	Liquid	Radziszewsky	B., 7, 140, 1126	
<i>a</i> - " "	"	"	148-152 (500)	....	Thorpe	Z. C., 1871, 130	
<i>a</i> - " "	"	"	200-210 (?)	Liquid	Berthelot	B. S., 10, 343	
β - " "	$Ph.CH_2.CH_2Br$	"	d. in vac.	Liquid	Bernthsen & Bender	B., 15, 1983	
Caprylidene bromide ....	..	$C_8H_{11}Br$	203-205	....	....	A., 142, 300	
Tribromoctine ....	....	$C_8H_{11}Br_3$	....	246	Rénard	C. R., 95, 141	42, 1179
Bromoctylene....	....	$C_8H_{15}Br$	150	....	Cloez	C. R., 78, 1565	27, 973
	....	"	185	..		A., 142, 298	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Bromooctylene ....	....	$C_8H_{15}Br$	185-190	....	Thorpe and Young	A., 165, 15 ; B., 5, 558	vii., 892 ; 25, 803
Octylene dibromide ....	....	$C_8H_{16}Br_2$	abt. 200 d.	....	Nieson	....	27, 847
Octyl bromide	$CH_3(CH_2)_6CH_2Br$	$C_8H_{17}Br$	203-204 c.	....	Perkin	....	45, 458
" "	"	"	198-200	....	Zincké	A., 152, 5	vi., 878
" "	"	"	not at 190	....	Nieson	....	27, 847
" "	Secondary	"	190 d.	....	Bouis	A. C. [3], 44, 130	iv., 170
" "	"	"	188	....	Lachowicz	A., 220, 168	46, 166
Pentabromisopropyl benzene	$C_6Br_5CHMe_2$	$C_9H_7Br_5$	....	90-100	Meusel	Z. C. [2], 3, 322	vi., 297
" " ....	"	"	....	97	....	A., 149, 326	....
Cinnyl tribromide	$C_9H_4Ph.Br_3$	$C_9H_9Br_3$	....	124	Grimaux	B. S., 20, 121	26, 1139
Mesitylene tribromide	$C_6H_3(CH_2Br)_3 = 1.3.5$	"	....	94.5	Colson	C. R., 96, 713 ; C. R., 97, 177	44, 734 ; 46, 57
Bromomesitylene dibromide	$Me.(CH_2Br)_2.Br = 1.3.5$ (2 or 4)	"	....	81-82	"	C. R., 97, 177	46, 58
Tribromtrimethyl benzene	$Me_3.Br_3 = (?)$	"	....	219	Preis and Rayman.	B., 12, 219	36, 623
Tribrommesitylene	" = 1.3.5.2.4.6	"	....	224	Fittig and Storer	A., 147, 11	vi., 298
Tribrompseudocumene	" = 1.3.4.2.5.6	"	....	225-226	Fittig & Laubinger	Z. C. [2], 4, 578	vi., 297
Tribromhemellithene	" = 1.2.3.4.5.6	"	....	245	Jacobsen	B., 15, 1858	44, 53
Dibrommesitylene	$Me_3.Br_2 = 1.3.5.2.4$	$C_9H_{10}Br_2$	285	60	Fittig and Storer	A., 147, 10	vi., 298
" " ....	" "	"	....	60	Robinet	C. R., 96, 500	44, 577
" "	" "	"	277-278	64	Stüssenguth	A., 215, 247	44, 469
" "	" "	"	276-278	64	"	"	"
" "	" "	"	278	64	Jannasch & Stüssenguth	Z. C. [2], 7, 454	25, 240
Dibrompseudocumene	" = 1.3.4.?.?	"	277	63	" "	"	"
Mesitylene dibromide	$C_6H_3.Me.(CH_2Br)_2 = 1.3.5$	"	178-190 i. v.	66.3	Robinet	C. R., 96, 500	44, 577
" " ....	" "	"	....	66.4	Robinet and Colson	C. R., 96, 1863	44, 1095
" " ....	" "	"	....	66.4	Colson	C. R., 96, 713	44, 734
Allylbenzene dibromide	$Ph.CHBr.CHBr.CH_3$	"	....	60	Radziszewsky	B., 7, 143	27, 470
" " ....	"	"	....	65-66	"	C. R., 78, 1153	27, 798
" " ....	"	"	....	66.5	Rügheimer	A., 172, 131	27, 894
" " ....	"	"	....	67	Perkin	....	32, 667
Brommesitylene	$Me_3.Br = 1.3.5.6$	$C_9H_{11}Br$	225	-1	Fittig and Storer	A., 147, 6	vi., 298
Brompseudocumene	" = 1.3.4.6	"	....	72	Jannasch	B., 7, 692	27, 987
" "	" "	"	230-240	72	Stüssenguth	A., 215, 242	44, 469
" " ....	" "	"	....	73	Gissmann	A., 216, 200	44, 335
Bromtrimethyl benzene ....	" = (?)	"	....	73	Fittig and Ernst	Z. C. P. [1865], 572	v., 1058
Mesitylene bromide	$Me_2.CH_2Br = 1.3.5$	"	229-231 (740)	37.5-38	Wispek	B., 16, 1577	44, 1095
" "	" "	"	s. d.	....	....	....	....
" "	" "	"	230	38.3	Colson	C. R., 96, 713	44, 734
Ethyl bromtoluene	$C_6H_3.Me.Et.Br = 1.4.6$	"	....	Liquid	Morse and Reusen	B., 11, 225	....
Propyl brombenzene	$C_6H_4.Br.Pr^a = 1.4$	"	220 c.	Liquid	Meyer and Müller	B., 15, 698	....
Isopropyl brombenzene	$C_6H_4.Br.Pr^b = 1.4$	"	218-220	Liquid	Mensel	Z. C. [2], 3, 322	vi., 297
" "	" "	"	217	l. -20	Jacobsen	B., 12, 430	36, 624
Phenylpropyl bromide	$C_6H_5.C_3H_6Br$	"	220	Liquid	Radziszewsky	C. R., 78, 1153	27, 798
Bromnonylene ....	....	$C_9H_{17}Br$	208-212	....	Thorpe and Young	B., 5, 556 ; A., 165, 19	25, 803 ; vii., 892
Nonylene dibromide ....	....	$C_9H_{18}Br_2$	140-200	....	Wurtz.	B. S. [1863], 300	iv., 135
Hexabromnaphthalene ....	....	$C_{10}H_2Br_6$	....	245-246	Gessner	B., 9, 1511	....
Tribromnaphthalene ....	....	$C_{10}H_5Br_3$	....	60	....	....	iv., 11
α- " " ....	....	"	....	75	Glaser	A., 135, 43	vi., 845
β - " "	$\alpha_1\alpha_2 ; \alpha_1$	"	....	85	Jolin	B. S. [2], 28, 515	....
γ- " " ....	....	"	....	86.5	"	"	32, 902
" "	$\alpha_1\alpha_2\beta_1 ;$	"	....	113-114	Meldola	B., 16, 421	43, 4
?-Dibromnaphthalene ....	....	$C_{10}H_6Br_2$	....	59	....	....	iv., 11
?- " " ....	....	"	....	61	Guareschi	A., 222, 262	46, 842
α- " " ....	....	"	....	60.5-61	Jolin	B. S. [3], 28, 514	32, 901
α- " " ....	....	"	....	60.5-61	Magatti	G. I. [1881], 357	42, 203
α - " "	$\alpha_1\beta_1 ;$	"	....	63	Meldola	43, 5	....
α - " "	$\alpha_1\beta_2 ;$	"	....	64	"	B., 12, 1963	38, 260
" "	$\alpha_1\beta_1 ;$	"	....	67-68	Canzoneri	G. I., 12, 424	44, 67

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
α -Dibromnaphthalene	....	$C_{10}H_6Br_2$	....	67.5-68	Guareschi	G. I. [1881], 542; A., 222, 262	42, 734 ; 46, 842
?- " "	....	"	....	68	"	G. I. [1881], 542	42, 734
α - " "	$\alpha_1\beta_2$ ;	"	....	68-70	Meldola	43, 2	
?- " "	β	"	....	70-71	Guareschi	B., 10, 294	
?- " "	....	"	....	76	"	G. I. [1881], 542	42, 734
?- " "	isomeric	"	....	76	Glaser	A., 135, 43	vi., 845
η - " "	"	"	a. Hg.	76-77	Darmstädter and Wichelhaus	A., 152, 304	"
β- " "	....	"	....	81	Magatti	G. I. [1881], 357	42, 203
β- " "	....	"	....	81	Glaser	A., 135, 49	
β- " "	....	"	....	81	Jolin	B. S. [2], 28, 514	32, 901
β - " "	$\alpha_1\alpha_2$ ;	"	....	81	Meldola	43, 1	
β- " "	....	"	....	81	Giovannozzi	G. I. [1882], 147	42, 854
β - " "	$\alpha_1\alpha_2$;	"	310 s. d.	81-82	Guareschi	G. I. [1881], 542; A., 222, 262	42, 734 ; 46, 842
?- " "	α_1 ; α ?	"	....	81-82	Meldola	43, 4	
β- " "	....	"	....	85	Jolin	B. S. [2], 28, 514	32, 902
?- " "	Mixture (?)	"	....	abt. 110	Baumhauer	B., 4, 926	25, 137
γ- " "	....	"	....	120	Magatti	G. I. [1881], 357	42, 203
γ- " "	....	"	....	126-127	Darmstädter and Wichelhaus	A., 152, 304	vi., 845
γ- " "	....	"	....	126-127	Guareschi	G. I. [1881], 542	42, 734
γ - " "	α_1 ; α_2	"	....	129	Jolin	B. S. [2], 28, 514	32, 901
" "	Br ; Br	"	325.5 s. d.	130-131.5	Guareschi	A., 222, 262	46, 842
δ- " "	....	"	....	140.5	Jolin	B. S. [2], 28, 517	22, 902
ϵ- " "	....	"	....	159.5	"	" "	"
α -Bromnaphthalene	$C_4H_4C : C.C_4H_3Br$	$C_{10}H_7Br$	277	Liquid	Wahlforss	Z. C. [2], 1, 3	vi., 844
α - " "	"	"	276	....	Merz and Weith	B., 10, 757	
α - " "	"	"	270-280	....	" "	B., 15, 2721	
α - " "	"	"	285	....	Glaser	A., 135, 41	vi., 844
α - " "	"	"	277	....	Rother	B., 4, 851	25, 82
α - " "	"	"	277-278	....	Otto and Möries	A., 147, 175	
α- " "	"	"	....	Liquid	Liebermann	A., 153, 225	31, 607
α- " "	"	"	....	Liquid	Palm	B., 9, 499	30, 206
α- " "	"	"	....	Liquid	Smith	....	32, 563
β - " "	"	"	277	Solid	Rother	B., 4, 851	vii., 845
β- " "	"	"	....	55-60	Canzoneri	G. I., 12, 424	44, 67
β- " "	"	"	....	68	Liebermann	A., 183, 268	31, 607 ; 44, 67
β - " "	"	"	277	68	Palm	B., 9, 500	30, 206 ; 44, 67
β- " "	"	"	....	69	"	"	"
β- " "	"	"	....	69	Smith	....	32, 563
" dihydride	....	$C_{10}H_9Br$	269-270	....	Agrestini	B., 16, 796 ; G. I., 12, 495	
Brom- β -butenyl benzene	....	$C_{10}H_{11}Br$	....	Liquid	Perkin	....	35, 139
" " di-bromide	....	$C_{10}H_{11}Br_3$	....	63.5	"	....	35, 140
Tribromdimethylethyl benzene	$EtMe_2Br_3 = 1.3.5.2.4.6$	"	a. 360	218	Jacobsen	B., 7, 1434	28, 259
?-Phenylbutylene dibromide	From $C_6H_5(CH_2)_3CH_3$	$C_{10}H_{12}Br_2$	....	Liquid	Radziszewsky	B., 9, 261	
?- " "	....	"	....	Liquid	Fittig	B., 14, 1825	
β - " "	$C_6H_5.CH_2.C_3H_5Br_2$	"	....	l. — 20	Perkin	C. f. A., 216, 125	35, 139
α- " "	"	"	....	67	"	C. f. A., 171, 229	32, 668
?- " "	From $C_6H_5(CH_2)_3CH_3$	"	....	70-71	Radziszewsky	B., 9, 261	29, 916
Diethylbenzene dibromide	$C_6H_4(C_2H_4Br)_2$	"	200-230	....	Hanriot & Guilbert	C. R., 98, 525	46, 733
Dibromcymene	$C_6H_2.Me.Pr^2.Br_2 = 1.4.(?)_2$	"	272 u. c.	Liquid	Wimmel	B., 13, 903	
Dibromtetramethyl benzene	$Me_4.Br_2 = 1.2.4.5.3.6$	"	....	200	Ador and Rilliet	B., 12, 329	
" "	" = 1.2.3.5.4.6	"	....	199	Jannasch & Fittig	Z. C. [2], 6, 162	vi., 828
" "	" "	"	....	199	Jannasch	B., 8, 356	
" "	" "	"	....	199	Ador and Rilliet	B., 12, 329	36, 527
" "	" "	"	....	201	Montgolfier	A. C. [5], 14, 87	34, 899
" "	" "	"	....	202-203	....	J. [1879], 372	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dibromtetramethyl benzene	$\text{Me}_4.\text{Br}_2=1.2.3.5.4.6$	$\text{C}_{10}\text{H}_{12}\text{Br}_2$	....	209	Jacobsen	B., 15, 1853	44, 52
" "	" "	"	....	209	Armstrong & Miller	B., 16, 2255	46, 44
(?)	....	"	....	196-202	....	Z. C. [1867], 689	
Bromocymene	$\text{Me.Pr}^a.\text{Br}=1.4.6$	$\text{C}_{10}\text{H}_{13}\text{Br}$	233-235 c.	Liquid	Landolph	B., 5, 267	vii., 420; 25, 473
"	"	"	228-229	....	Fittica	A., 172, 311	28, 59
"	" = 1.4.?	"	228-229	....	Gerichten	B., 11, 1092	34, 787
"	"	"	224-226	....	"	B., 11, 1791	36, 230
α -Bromisocymene	$\text{Me.Pr}^c.\text{Br}=1.3.6$	"	233-235	Liquid	Kelbe	B., 15, 40	42, 618
β - "	" = 1.3.?	"	224-225	Liquid	"	B., 15, 41	42, 619
Bromtetramethyl benzene	$\text{Me}_4.\text{Br}=1.2.4.5.6$	"	....	61	Gissmann	A., 216, 210	44, 335
"	"	"	....	65	....	A., 198, 388	
"	" = 1.2.3.5.6	"	252-254	Crystalline	Biedlefeld	"	38, 38
Action of Br on Laurene	....	$\text{C}_{10}\text{H}_{15}\text{Br}_3$ (?)	....	125	Montgolfier	A. C. [5], 14, 5	34, 899
From camphor	....	$\text{C}_{10}\text{H}_{14}\text{Br}_4$	....	164	Swarts	B., 15, 1621	
Bromterebene hydrobromide	$\text{C}_{10}\text{H}_{15}\text{Br.HBr.}$	$\text{C}_{10}\text{H}_{16}\text{Br}_2$	....	80	Papasogli	G. I., 6, 538	31, 593
Cajputene tetrabromide	....	$\text{C}_{10}\text{H}_{16}\text{Br}_4$	....	60	Schmild	J. [1860], 482	i., 711
Tetrabromide of $\text{C}_{10}\text{H}_{16}$	From colophony	"	....	120	Rénard	C. R., 92, 887	40, 739
Terpene hydrobromide	From turpentine	$\text{C}_{10}\text{H}_{17}\text{Br}$	....	60	Biedermann & Oppenheim	B., 5, 628	25, 1009
"	"	"	....	80	Papasogli	B., 10, 84	
Borneol bromide	....	"	....	74-75	Kachler	A., 197, 98	36, 1040
Terpene dihydrobromide	$\text{C}_{10}\text{H}_{16}2\text{HBr.}$	$\text{C}_{10}\text{H}_{18}\text{Br}_2$	....	42	Oppenheim	A., 129, 149	v., 923
Bromdecylene	....	$\text{C}_{10}\text{H}_{19}\text{Br}$	abt. 215	Liquid	Reboul and Truchot	B. S. [2], 8, 422	vi., 542
Phenylpentylenedibromide	$\text{Ph.C}_5\text{H}_7\text{Br}_2$	$\text{C}_{11}\text{H}_{12}\text{Br}_2$	....	53-54	Schramm	A., 218, 383	44, 977
Phenylisopentylenedibromide	"	"	....	128-129	"	"	"
Tribrompropyldimethyl benzene	$\text{C}_6\text{Br}_3.\text{Me}_2.\text{Pr}$	$\text{C}_{11}\text{H}_{13}\text{Br}_3$	....	125	Fittig, Kölbrich & Jilke	A., 145, 149	vi., 304; 46, 43
Tribromisoamyl benzene	$\text{C}_6\text{H}_2\text{Br}_3.\text{C}_5\text{H}_{11}$	"	....	140	Tollens and Fittig	A., 131, 303	vi., 303
"	"	"	....	140	....	A., 141, 161	
Tribromdiethyltoluene	$\text{Me.Et}_2.\text{Br}_3=1.3.5.2.4.6$	"	....	206	Jacobsen	B., 7, 1435	28, 259
(?)	....	"	....	205	Preis and Raymann	B., 12, 219	36, 623
Isopropylvinylbenzenedibromide	$\text{C}_6\text{H}_4.\text{Pr}^b.(\text{CHBr.CH}_2\text{Br})$	$\text{C}_{11}\text{H}_{14}\text{Br}_2$	....	71	Perkin	J. [1877], 380	32, 664
Amylbenzenebromide	....	$\text{C}_{11}\text{H}_{15}\text{Br}$	....	l. 0	Essner	B. S. [2], 36, 212	42, 46
Dibromdiphenyl	$\text{Br.Br}=4; 4'$	$\text{C}_{12}\text{H}_8\text{Br}_2$	....	164	Lellmann	B., 15, 2837	44, 343
"	"	"	....	164	Strasse and Schultz	A., 210, 191	42, 521
"	"	"	....	164	....	A., 132, 204	iv., 410
"	"	"	....	162	Carnelley	C. f. A., 189, 138	37, 706
"	"	"	355-360	(?)	Schultz	A., 174, 201	28, 149
Dibromacenaphthene	$\text{C}_{10}\text{H}_6.\text{CHBr.CHBr}$	"	....	121-123	Blumenthal	B., 7, 1093	
Bromdiphenyl	$\text{C}_6\text{H}_4.\text{Br.Ph}=1.2$	$\text{C}_{12}\text{H}_9\text{Br}$	296-298	....	Schultz & Strasse	B., 14, 612	40, 604
"	"	"	296-298	s.—20	Schultz, Schmidt, & Strasse	A., 207, 353	40, 912
"	" = 1.4	"	310	89	Engelhardt & Latchinoff	Z. C. [2], 7, 259	vii., 937
"	"	"	310	89	Schultz	B., 5, 682	25, 1005
"	"	"	310 c.	89	"	A., 174, 201	28, 149
Bromacenaphthene	$\text{C}_{10}\text{H}_5\text{Br.CH}_2\text{CH}_2$	"	....	52-53	Blumenthal	B., 7, 1095	
Tribromethylnaphthalene	$\text{C}_{10}\text{H}_4\text{Br}_3\text{Et}$	$\text{C}_{12}\text{H}_9\text{Br}_3$	....	127	Cannizzaro and Carnelutti	B., 13, 1517	
"	"	"	....	127	Carnelutti	B., 13, 1672	
Tribromdimethylnaphthalene	$\text{C}_{10}\text{H}_3\text{Br}_3\text{Me}_3$	"	....	145-147	Giovanozzi	G. I. [1882], 147	42, 855
"	"	"	....	228	Cannizzaro and Carnelutti	G. I., 12, 393; B., 13, 1517	44, 80
Dimethylnaphthalene hexabromide	$\text{C}_{10}\text{H}_6\text{Me}_2.\text{Br}_6$	$\text{C}_{12}\text{H}_{12}\text{Br}_6$	....	184	Giovanozzi	G. I. [1882], 147	42, 855
Hexamethylbenzene hexabromide	....	" (?)	....	227	Hofmann	B., 13, 1732	
Phenylhexylene dibromide	$\text{Ph.C}_6\text{H}_9\text{Br}_2$	$\text{C}_{12}\text{H}_{14}\text{Br}_2$	....	79-80	Schramm	A., 218, 383	44, 977
Dipropyldibrombenzene	$\text{Pr}^a_2.\text{Br}_2=1.4.(?)_2$	$\text{C}_{12}\text{H}_{16}\text{Br}_2$	....	48	Körner	A., 216, 227	44, 322

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isopropylallylbenzene dibromide	$\text{Pr}^\beta \cdot \text{C}_6\text{H}_4 \cdot \text{CHBr} \cdot \text{CHBr} \cdot \text{Me}$	$\text{C}_{12}\text{H}_{16}\text{Br}_2$	....	59	Perkin	J. [1877], 380	32, 665
Hexabromhexamethylbenzene	$\text{C}_6\text{Br}_6\text{Me}_6$ (?)	$\text{C}_{12}\text{H}_{18}\text{Br}_6$ (?)	....	227	Hofmann	B., 13, 1732	40, 261
Tribromfluorene ....	....	$\text{C}_{13}\text{H}_7\text{Br}_3$	....	161-162	Barbier	A. C. [5], 7, 492	31, 72
Dibrom- α -methylene diphenylene	....	$\text{C}_{13}\text{H}_8\text{Br}_2$	....	162-163	Fittig and Schmitz	A., 193, 137	36, 164
" - α- "	....	"	....	153-154	Gräbe	A., 174, 194	
" - β - "	$\text{XC}_6\text{H}_4\text{CH}_2\text{C}_6\text{H}_4\text{X}$	"	....	165	Hodgkinson & Matthews	B., 16, 1103	43, 165
" - β- "	"	"	....	166	Holm	B., 16, 1081	44, 921
" - β- "	....	"	....	166-167	Barbier	A. C. [5], 7, 490	31, 71
" - γ- "	....	"	....	162	Carnelley	....	37, 710
Brom- β -methylene diphenylene	$\text{H}_3\text{C}_6\text{H}_4\text{CH}_2\text{C}_6\text{H}_3\text{Br}$	$\text{C}_{13}\text{H}_9\text{Br}$	....	101-102	Hodgkinson & Matthews	B., 16, 1103	43, 165
Diphenylbrommethane	$\text{CHBr} \cdot \text{Ph}_2$	$\text{C}_{13}\text{H}_{11}\text{Br}$	....	45	Friedel and Balshon	B. S. [2], 33, 339	38, 558
Brom-p-tolylphenyl	From $\text{Ph} \cdot \text{C}_6\text{H}_4 \cdot \text{Me} = 1.4$	"	....	127-129	Carnelley	....	37, 707
" ....	"	"	....	130-131	"	....	"
Isopropylbutenylbenzene-dibromide	$\text{C}_6\text{H}_4 \cdot \text{Pr}^\beta \cdot \text{CHBr} \cdot \text{CHBr} \cdot \text{Et}$	$\text{C}_{13}\text{H}_{18}\text{Br}_2$	....	77	Perkin	J. [1877], 381	32, 666
Octobromanthracene ....	....	$\text{C}_{14}\text{H}_2\text{Br}_8$	....	Crystalline	Diehl	B., 11, 179	34, 429
Heptabromphenanthrene ....	....	$\text{C}_{14}\text{H}_3\text{Br}_7$	....	a. 270	Zetter	B., 11, 172	34, 510
Heptabromanthracene ....	....	"	....	n. f. 350	Diehl	B., 11, 178	34, 429
Hexabromphenanthrene ....	....	$\text{C}_{14}\text{H}_4\text{Br}_6$	....	245	Zetter	B., 11, 172	34, 510
Hexabromanthracene ....	....	"	....	182 p. d.	Anderson	....	iv., 351
α- " ....	....	"	....	310-320	Diehl	B., 11, 178	34, 429
Iso- " ....	....	"	....	n. f. 370	Hammerschlag	B., 10, 1213	34, 76
Pentabromanthracene ....	....	$\text{C}_{14}\text{H}_5\text{Br}_5$	....	abt. 212	"	"	"
Tetrabromphenanthrene ....	....	$\text{C}_{14}\text{H}_6\text{Br}_4$	....	183-185	Zetter	B., 11, 171	34, 510
Tetrabromanthracene ....	....	"	....	238	Anderson	15, 44	vi., 178
" ....	....	"	....	254	Gräbe and Liebermann	As., 7, 257	"
Tetrabromanthracene tetrabromide	$\text{C}_{14}\text{H}_6\text{Br}_4 \cdot \text{Br}_4$	$\text{C}_{14}\text{H}_6\text{Br}_8$	....	abt. 212 d.	Hammerschlag	B., 10, 1213	34, 76
Tribromphenanthrene ....	....	$\text{C}_{14}\text{H}_7\text{Br}_3$	....	126	Limpricht	B., 6, 533	26, 898
" ....	....	"	....	125-126	Zetter	B., 11, 171	34, 510
Tribromanthracene ....	....	"	....	169	Gräbe and Liebermann	As., 7, 279	vi., 178
α -Dibromphenanthrene ....	....	$\text{C}_{14}\text{H}_8\text{Br}_2$	....	146-148	Zetter	B., 11, 170	34, 510
β- " ....	....	"	....	158	"	"	"
γ- " ....	....	"	....	202	Limpricht	B., 6, 533	26, 898
Dibromanthracene ....	....	"	....	182 (?)	Anderson	....	vi., 178
" ....	....	"	....	221	Gräbe and Liebermann	As., 7, 275	"
Isodibromanthracene ....	....	"	....	190-192	Miller	A., 182, 366	31, 86
Dibromsynanthrene ....	....	"	....	175	....	A., 191, 300	
Dibromanthracene dibromide	....	$\text{C}_{14}\text{H}_8\text{Br}_4$	....	238 p. d.	Anderson	....	iv., 351
" tetrabromide	....	$\text{C}_{14}\text{H}_8\text{Br}_6$	....	170-180	Gräbe and Liebermann	As., 7, 277	
" " ....	....	"	....	182	Anderson	A., 122, 304	vi., 178
Bromphenanthrene ....	....	$\text{C}_{14}\text{H}_9\text{Br}$	....	63	Limpricht	B., 6, 533	26, 897
"	$\text{C}_6\text{H}_4\text{CH} : \text{CBr} \cdot \text{C}_6\text{H}_4$	"	a. 360	Solid (?)	Anschutz	B., 11, 1218	34, 984
Bromanthracene ....	....	"	....	100	Perkin	C. N., 34, 145	31, 209
β -Tolane dibromide	$\text{Ph} \cdot \text{C}_2\text{Br}_2 \cdot \text{Ph}$	$\text{C}_{14}\text{H}_{10}\text{Br}_2$	....	64	Limpricht and Schwanert	B., 4, 379	24, 511
β- " " ....	"	"	....	64	Jena	I. D.	vii., 1162
α- " " ....	"	"	....	200-205	Limpricht and Schwanert	A., 145, 348 ; B., 4, 379	vi., 1099 ; 24, 511 ; vii., 1162
α- " " ....	"	"	....	207-208	Liebermann and Homeyer	B., 12, 1974	38, 259
Diphenyldibromethylene	$\text{CPh}_2 : \text{CBr}_2$	"	a. 300 p. d.	83	Goldschmidt	B., 6, 986	27, 151

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Phenanthrene dibromide ....	....	$C_{14}H_{10}Br_2$	....	Solid	Fittig and Ostermayer	A., 166, 364	vii., 85
" " ....	....	"	....	98 d.	Limpricht	B., 6, 533	28, 897
Diphenylbromethylene	$CPh_2 \cdot CHBr$	$C_{14}H_{11}Br$	a. 300	50	Hepp	B., 7, 1411	28, 361
Bromstilbene ....	....	"	....	25	....	A., 145, 340; 155, 72	
Diphenyltribromethane	$CHPh_2 \cdot CBr_3$	$C_{14}H_{11}Br_3$	....	89	Goldschmidt	B., 6, 985	27, 150
Bromstilbenedibromide ....	....	"	....	100	Limpricht and Schwanert	A., 145, 341	vi., 1107
Tribromdibenzyl ....	....	"	....	n. f. 170	Stelling and Fittig	A., 137, 268	v., 871
" " ....	....	"	....	207-211	....	A., 151, 365	
Dibromdibenzyl	$C_6H_4Br(CH_2)_2 \cdot C_6H_4Br = (1.4)_2$	$C_{14}H_{12}Br_2$	....	114	Stelling and Fittig	A., 137, 267	v., 871
" " ....	" "	"	....	114-115	Leppert	B., 9, 17	29, 704
Stilbene dibromide	$Ph \cdot CHBr \cdot CHBr \cdot Ph$	"	....	230-235	Limpricht and Schwanert	A., 145, 336	vi., 1107
" " ....	"	"	....	233	Forst and Zincké	B., 7, 1713	28, 454
" " ....	"	"	....	232	" "	"	"
" " ....	"	"	....	237	Zincké	A., 198, 127	38, 115
" " ....	"	"	....	237	"	"	"
Bromdibenzyl ....	....	$C_{14}H_{13}Br$	a. 320	s. 0.	Stelling and Fittig	A., 137, 266	v., 871
Tetraphyldibrombenzene	$C_6Et_4Br_2 = 1.2.3.5.4.6$	$C_{14}H_{20}Br_2$	330	74.5	Galle	B., 16, 1744	44, 1092
" " ....	" = (?)	"	....	110	"	"	"
Tetraphylbrombenzene	$C_6HEt_4 \cdot Br = 1.2.3.5.6$	"	284	Liquid	"	"	"
Tribromfluoranthene ....	....	$C_{15}H_7Br_3$	....	n. f. 345	Goldschmidt	W. A., 81, 415	40, 283
Dibromfluoranthene ....	....	$C_{15}H_8Br_2$	....	202	"	"	"
" " ....	....	"	....	204-205	Fittig and Gerhard	A., 193, 146	36, 166
Dibrommethylantracene ....	....	$C_{15}H_{10}Br_2$	....	156	Fischer	B., 7, 1196	28, 155
" "	From $C_6H_4 : C_2H_2 : C_6H_3Me$	"	....	148	Bornstein	B., 15, 1822	44, 71
" " ....	....	"	....	138-140	Liebermann and Seidler	B., 11, 1606; A., 212, 35	
Dibromditolylmethane	$CBr_2(C_6H_4Me)_2$	$C_{15}H_{14}Br_2$	....	115	Weiler	B., 7, 1182	28, 151
Brom- ?	$C_{18}H_{11}Br ?$	$C_{16}H_9Br$	....	112	Ador and Crafts	C. R., 88, 1355	36, 940
Dibromdimethylantracene ....	....	$C_{16}H_{12}Br_2$	....	154	Van Dorp	A., 169, 213	27, 63
Distyrene dibromide ....	....	$C_{16}H_{16}Br_2$	....	102	Erdmann	A., 216, 190	44, 475
Dimethylstilbene dibromide	$C_2H_5Br_2(C_6H_4Me)_2$	"	....	207-209	Goldschmidt & Hepp	B., 6, 1505	27, 371
Cetyl bromide ....	....	$C_{16}H_{33}Br$	....	15	Fridau	A., 83, 15	i., 840
Dibromchrysene ....	....	$C_{18}H_{10}Br_2$	....	273	Schmidt	J. p. C. [2] 9, 275	27, 988
Brom- ?	$C_{16}H_9Br ?$	$C_{18}H_{11}Br$	....	112	Ador and Crafts	C. R., 88, 1355	36, 940
Tetrabromretene ....	....	$C_{18}H_{14}Br_4$	....	210	Ekstrand	B., 9, 855	30, 514
" " ....	....	"	....	210-212	"	A., 185, 84	32, 497
Ditbromretene ....	....	$C_{18}H_{16}Br_2$	....	180	"	A., 185, 83	"
Tribromdiphenylene phenylmethane ....	....	$C_{19}H_{11}Br_3$	....	167-171	Behr	B., 5, 971	
Dibromdiphenylene phenylmethane ....	....	$C_{19}H_{12}Br_2$	....	181-182	"	"	
Triphenylbrommethane	$CBr \cdot Ph_3$	$C_{19}H_{15}Br$	....	152	Schwarz	B., 14, 1520	40, 913
Isoamylbromanthracene	$C_6H_4 : C_2Br(C_6H_{11}) : C_6H_4$	$C_{19}H_{19}Br$	....	76	Liebermann and Tobias	B., 14, 797	40, 736
" " ....	"	"	....	76	Liebermann	A., 212, 111	42, 863
Dibrom- α -dinaphthyl ....	....	$C_{20}H_{12}Br_2$	....	215	Lossen	A., 144, 80	vi., 855
Dibrom- β -dinaphthylmethane ....	....	$C_{21}H_{14}Br_2$	....	164	Richter	B., 13, 1728	40, 282
Dibrom- α -dinaphthylmethane	$CH_2(C_{10}H_6Br)_2(?)$	"	....	193	Grabowski	B., 7, 1608	
Dibrompicene ....	....	$C_{22}H_{12}Br_2$	....	293-295	Burg	B., 13, 1837	
" " ....	....	"	....	294-296	Gräbe and Walter	B., 14, 176	
Bromtriphenylbenzene ....	....	$C_{24}H_{17}Br$	....	104	Engler & Berthold	B., 7, 1125	28, 63
(?)	....	$C_{28}H_{19}Br_3$	....	273	Schmidt	B., 6, 496	26, 1234

(4.) CHI.

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Iodoform ....	....	CHI ₃	....	115-120	Weltzien	....	iii., 311
" ....	....	"	....	119	Dafert	M. C., 4, 496	44, 978
" ....	....	"	....	119	Serullas	A. C. [2], 22, 72	
" ....	....	"	....	120	....	Ger. Pharm., 1882	
Methylene diiodide ....	....	CH ₂ I ₂	....	2	Butlerow	A., 107, 110 ; 109, 242	iii., 1006
" " ....	....	"	181 p. d.	5	"	J., 11, 420	
" " ....	....	"	180 p. d.	4	Hofmann	A., 115, 267	
" " ....	....	"	181	....	Sakuri	41, 362	
" " ....	....	"	151-153 c. (330)	....	Perkin	45, 464	
Methyl iodide	MeI	CH ₃ I	41·8	....	Sigel	A., 170, 345	
" "	"	"	40-50	....	Dumas and Peligot	A. C. [2], 58, 30	
" "	"	"	43·7 ; 42·5	....	Haagen	P. A., 131, 117	
" "	"	"	42·2 (752)	....	Andrews	J., 1, 89	iii., 990
" "	"	"	43·8 (750)	....	Pierre	C. R., 27, 213	"
" "	"	"	42·3 c.	....	Perkin	....	45, 459
" "	"	"	42·8	....	Jones	....	33, 182
" "	"	"	43-44	....	Lieben and Rossi	A., 158, 107	24, 344
" "	"	"	41-46	....	Linnemann	A., 161, 178	vii., 215 ; 25, 395
" "	"	"	43	....	Lieben and Paternò	G. I., 2, 290	27, 357
Methyliodide hydrate	2MeI.H ₂ O	"	....	-4	....	C. R., 90, 1491	
Acetylene diiodide	CHI : CHI.	C ₂ H ₂ I ₂	....	70	Berthelot	B. S. [2], 2, 202	vi., 34
" "	"	"	Sublimes	73	Sabanejeff	A., 178, 118	29, 57
" "	"	"	190	....	Henry	C. R., 98, 741	46, 831
" "	"	"	192 c.	73	Plimpton	B., 16, 79	41, 391
Diiodethylene	CH ₂ : Cl ₂	"	197 calcd.	....	"	"	41, 396
" (?) ....	"	"	....	s. b. 0	Sabanejeff	A., 178, 118	29, 57
Iodethylene (vinyl iodide)	CHI : CH ₂	C ₂ H ₃ I	56	....	Semenoff	C. R., 61, 646	vi., 34
" "	"	"	56	....	Gustavson	B., 7, 731	27, 1075
" "	"	"	55·5-56	....	"	A. C. [5], 2, 397	27, 1153
" "	"	"	56	....	Sabanejeff	B. S. [2], 34, 323	40, 399
Acetylene hydriodide ....	....	"	62	....	Semenoff	C. R., 61, 646	vi., 34
Ethylidene diiodide	CH ₃ .CHI ₂	C ₂ H ₄ I ₂	180	Liquid	Berthelot	B. S. [2], 2, 202	"
" "	"	"	177-179	....	Gustavson	B., 7, 731	27, 1075
" "	"	"	178-179	....	"	A. C. [5], 12, 397	27, 1153
" "	"	"	180	....	Friedel	B., 7, 823	
" "	"	"	179-180	....	Plimpton	41, 397	
Ethylene diiodide	CH ₃ I.CH ₂ I	"	....	70	Kopp	J. P., 33, 183	
" " ....	"	"	....	73	Regnault	A. C. [2], 59, 368	
" "	"	"	d.	....	Plimpton	41, 397	
" " ....	"	"	....	75	....	....	ii., 578
" " ....	"	"	....	82	Romburgh	R. T., 1, 151	44, 303
" " ....	"	"	....	82	Aronstein & Krumps	B., 13, 489	38, 541
Ethyl iodide	CH ₃ .CH ₂ I	C ₂ H ₅ I	64·8	....	Gay Lussac	A. C., 91, 91	
" "	"	"	64·5	....	Marchand	J. F. P., 33, 188	
" "	"	"	71·6-72·2	....	Frankland	2, 263	ii., 534
" "	"	"	72-73	....	Berthelot	A., 115, 114	
" "	"	"	70	....	Pierre	C. R., 27, 213	ii., 534
" "	"	"	70	....	"	C. R., 74, 224	25, 239
" "	"	"	71·3	....	Andrews	J., 1, 89	
" "	"	"	72·2	....	Jones	....	33, 181
" "	"	"	72	....	Saytzeff	J. p. C. [2], 3, 88	24, 525
" "	"	"	72·3-72·5 c.	....	Perkin	....	45, 460
" "	"	"	72	....	Thorpe	....	35, 544
" "	"	"	73	....	Haagen	P. A., 131, 117	
" "	"	"	72·2	....	"	"
" "	"	"	72·34	....	Linnemann	A., 162, 39	vii., 203

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl iodide	$\text{CH}_3\text{CH}_2\text{I}$	$\text{C}_2\text{H}_5\text{I}$	72.27	....	Linnemann	A., 148, 251	25, 477
" "	"	"	72	....	"	A., 162, 12	vii., 223
" "	"	"	71	....	"	A., 144, 133	
" "	"	"	72.3	....	"	A., 160, 204	
" "	"	"	71	....	Plimpton and Graves	43, 123	
" "	"	"	70-72	....	Gladstone and Tribe	....	30, 361
" "	"	"	72	....	Sabanéjeff	B. S. [2], 34, 323	40, 399
Iodallylene	$\text{Cl}:\text{C}:\text{CH}_3$	$\text{C}_3\text{H}_3\text{I}$	98	....	Liebermann	A., 135, 266	vi., 97
Propargyl iodide	$\text{CH}:\text{C}:\text{CH}_2\text{I}$	"	115	Liquid	Henry	B., 17, 1132	46, 979
" "	"	"	abt. 120 d.	Liquid	"	B., 6, 729	vii., 1008
" "	Compare B., 17, 1133	" (?)	....	48-49	"	B., 8, 399	26, 1123
Iodallylene diiodide	$\text{Cl}_2:\text{Cl}:\text{CH}_3$	$\text{C}_3\text{H}_3\text{I}_3$	....	64	Liebermann	A., 135, 216	vi., 98
Propargyl triiodide ...	$\text{CHI}:\text{Cl}:\text{CH}_2\text{I}$	"	....	40-41	Henry	B., 17, 1133	
Allylene diiodide	$\text{CHI}:\text{Cl}:\text{CH}_3$	$\text{C}_3\text{H}_4\text{I}_2$	198	....	Oppenheim	B. S. [2], 4, 434	vi., 96
" hydriodide	$\text{C}_3\text{H}_4\text{HI}$	$\text{C}_3\text{H}_5\text{I}$	82	....	Semenoff	B. S. [2], 5, 446	"
" "	"	"	93-103	....	Oppenheim	B. S. [2], 4, 434	"
Allyl iodide	$\text{CH}_2:\text{CH}:\text{CH}_2\text{I}$	"	101	....	Berthelot & De Luca	J., 7, 452	i., 142
" "	"	"	100-103	....	Saytzel & Kanonikoff	B., 9, 1810	
" "	"	"	70-71.5 c. (330)	....	Perkin	....	45, 460
" "	"	"	101	....	Aronheim	B., 7, 1382	28, 246
" "	"	"	100-102 (761)	....	Romburgh	R. T., 1, 151	44, 303
" "	"	"	89-92	....	Woieikoff	J., 16, 495	
" "	"	"	97-100	....	Tollens	A., 156, 156	
" "	"	"	101-102	....	Linnemann	As., 3, 264	
" "	"	"	101.5-102	....	"	As., 3, 267	
" "	"	"	102.5-102.8	....	Zander	A., 214, 145	
Diiodopropane ....	....	$\text{C}_3\text{H}_6\text{I}_2$	....	l. — 10	Berthelot & De Luca	A., 92, 311	v., 893
" "	$\text{CH}_2\text{I}:\text{CH}_2:\text{CH}_2\text{I}$	"	abt. 227 d.	Liquid	Freund	M. C. [2], 640	42, 157
" "	"	"	170 (170)	....	"	"
Allylene dihydriodide	$\text{C}_3\text{H}_4\text{.2HI}$	"	147-148 d.	....	Semenoff	B. S. [2], 5, 446	vi., 96
Iso-propyl iodide	$\text{CH}_3\text{CH}(\text{I})\text{CH}_3$	$\text{C}_3\text{H}_7\text{I}$	90 (735)	....	Erlenmeyer	Z. C. P. [1861], 362	v., 891
" "	"	"	89	....	"	A., 126, 309	
" "	"	"	89	....	"	A., 139, 229	
" "	"	"	93	....	Buff	As., 4, 149	
" "	"	"	72-91	....	Schipper and Tak	Z. C. [2], 4, 520	vi., 965
" "	"	"	88-89	....	Linnemann	A., 140, 178	
" "	"	"	89-90 (735)	....	"	As., 3, 265, 267	25, 236
" "	"	"	88.7-89.5 c.	....	"	A., 161, 43	vii., 1015
" "	"	"	88.6-89.5	....	Zander	A., 214, 162	
" "	"	"	89-90	....	Siersch	A., 144, 142	
" "	"	"	89-89.5 c.	....	Perkin	....	45, 461
" "	"	"	92-94	....	Simpson	A., 129, 128	
" "	"	"	89	....	Gladstone & Tribe	....	vii., 1015 ; 26, 968
" "	"	"	93	....	Wurtz	A., 136, 43	
" "	"	"	88.6-89 u. e.	....	Brown	P. R. S., 26, 238	32, 837
" "	"	"	90-95	....	Friedel	A., 124, 327	
" "	See Part III.	"	b. p. table	....	"	"
Propyl iodide....	$\text{CH}_3\text{CH}_2\text{CH}_2\text{I}$	"	102 (752)	....	Rossi	G. I., 1, 230	24, 1032; vi., 963
" "	"	"	102-103	....	Chapman & Smith	22, 198	vi., 963, 964
" "	"	"	104.25-104.5	....	Pierre and Puchot	G. R., 66, 302	"
" "	"	"	99-101	....	Chancel	C. R., 68, 656, 726	"
" "	"	"	101	....	Berthelot & De Luca	J., 7, 452	
" "	"	"	101.5	....	Linnemann	A., 168, 251	vi., 963, 964
" "	"	"	102.18	....	"	A., 162, 39	vii., 203, 645
" "	"	"	102.2	....	"	A., 162, 3	vii., 223, 1013
" "	"	"	102.25	"	A., 161, 43 ; A.	25, 236
" "	"	"		"	160, 195	
" "	"	"	102.11	"	A., 161, 18	25, 234
" "	"	"	102.2	"	A., 162, 12	25, 477
" "	"	"	102-104.5	Zander	A., 214, 159	

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Propyl iodide....	$\text{CH}_3\text{CH}_2\text{CH}_2\text{I}$	$\text{C}_3\text{H}_7\text{I}$	101	Gladstone & Tribe	36, 969	vii., 1015
" "	"	"	100-102	Schorlemmer	P. T. [1872], 111	25, 1086
" "	"	"	102-102.75 u.c.	....	Brown	P. R. S., 26, 238	32, 837
" "	"	"	100	....	Mazzara	G. I. [1882], 333	42, 1199
" "	"	"	101	....	Hiortdahl	C. R., 88, 584	36, 519
" "	"	"	102-103 c.	....	Perkin	....	45, 460
" "	See Part III.	"	b. p. table	....		
(?) -tetriodide ....	....	$\text{C}_4\text{H}_9\text{I}_4$	....	74	Berend	A., 131, 122	vi., 34
Crotyl iodide ....	....	$\text{C}_4\text{H}_7\text{I}$	131-133	....	....	M. C., 1, 837	
Butylene diiodide ....	....	$\text{C}_4\text{H}_8\text{I}_2$	115-120	....	Lieben and Rossi	A., 158, 137	24, 521
Buthyl iodide	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{I}$	$\text{C}_4\text{H}_9\text{I}$	129.6 (738.2)	....	" "	"	vii., 215; 24, 520
" "	"	"	127	....	" "	C. R., 68, 1561	vi., 372
" "	"	"	129.65	....	Linnemann	A., 161, 178	vii., 215, 216
" "	"	"	129.95 c.	....	"	"	25, 395
" "	"	"	125-129	....	"	"	"
" "	"	"	129.97	....	"	A., 161, 196	25, 396
" "	"	"	129.65	....	"	"	"
" "	"	"	129.81 c.	....	"	A., 162, 39	vii., 203
" "	"	"	129.9	....	"	A., 162, 3	vii., 223
" "	"	"	130.4-131.4 (745)	....	Brühl	G. J. C., 1880	
" "	"	"	130	Liquid	A. and M. Saytzeff	J. p. C. [2], 3, 88	24, 230, 525
" "	"	"	121	....	Wurtz	A., 93, 112	v., 736
Isobutyl iodide	$\text{Me}_2\text{CH.CH}_2\text{I}$	"	abt. 118	....	De Luynes	J. [1862], 476	"
" "	"	"	120 (715)	....	"	G. J. C., 1863	
" "	"	"	121	....	Chapman & Smith	22, 153	vi., 373
" "	"	"	120	....	Wurtz	....	24, 526
" "	"	"	122.5	....	Pierre and Puchot	A. C. [4], 22, 317	24, 526; 25, 239
" "	"	"	122.5	....	" "	C. R., 74, 224	vii., 218
" "	"	"	120.63	....	Linnemann	A., 140, 195	"
" "	"	"	120.57	....	"	"	"
" "	"	"	115-125	....	"	A., 161, 178	25, 395
" "	"	"	120.6 c.	....	"	A., 162, 12	vii., 217
" "	"	"	117.5-118 u.c. (715)	....	Erlenmeyer & Hill	A., 160, 257	25, 242
" "	"	"	119-121	....	Linnemann & Zotta	A., 162, 3	25, 475
" "	"	"	118-119 (734)	....	" "	A., 162, 7	vii., 217
" "	"	"	118-122	....	Demole	A., 175, 142	28, 561
" "	"	"	120 c. (760)	....	Brauner	A., 192, 69	34, 779
" "	"	"	120.5	....	Dobbin	....	37, 236
" "	"	"	119.4-120.4 (745)	....	Bruhl	G. J. C., 1880	
" "	"	"	119-121	....	Demarçay	C. R., 197, 360	26, 1227
" "	"	"	120-121 c.	....	Perkin	....	45, 462
Butyl iodide	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{I}$	"	83-83.25 (250)	....	Lieben	J., 21, 439	24, 525
" "	"	"	119-120 (758.3)	....		
" "	"	"	115-125	....	Linnemann	A., 161, 178	vii., 215
" "	"	"	116-120	....	Saytzeff	Z. C. [2], 6, 327	vii., 219
" "	"	"	117-118	....	Kessel	B., 7, 291	27, 677
" "	"	"	116.5-118	....	"	A., 175, 44	28, 554
" "	"	"	119-120	....	Kannonikoff and Saytzeff	A., 175, 374	28, 626
" "	"	"	119-120	....	Wagner	B. S. [2], 25, 396	30, 395
" "	"	"	118-121	....	Bel and Greene	B. S. [2], 29, 306	34, 773
" "	"	"	118-121	....	" "	"	34, 774
" "	"	"	118-121	....	" "	"	"
" "	"	"	120-121	....	Wurtz	Z. C. [2], 5, 407	vi., 377
" "	"	"	116-118	....	"	B. S. [2], 8, 265	vi., 376
" "	CIME_3	"	98-99 p. d.	Butlerow	Z. C. [1867], 362	vi., 374
" "	"	"	97-99	Linnemann	A., 161, 178	vii., 215, 223
" "	"	"	98.5	"	A., 162, 12	25, 395, 477

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Butyl iodide	CIME_3	$\text{C}_4\text{H}_9\text{I}$?	Markownikoff	Z. C. [2], 6, 29	
" "	"	"	100·25	Puchot	A. C. [5], 28, 507	46, 167
Iodoisopropylacetylene	$\text{Pr}^\beta\text{C}:\text{CI}$	$\text{C}_6\text{H}_7\text{I}$	140	....	....	J. R., 9, 225	
Valerylene hydriodide	$\text{C}_6\text{H}_8\text{HI}$	$\text{C}_6\text{H}_9\text{I}$	140-142	....	Reboul	C. R., 64, 284	vi., 1123
Amyl iodide	$\text{CH}_3(\text{CH}_2)_3\text{CH}_2\text{I}$	$\text{C}_5\text{H}_{11}\text{I}$	155·4 (739·3)	Liquid	Lieben and Rossi	G. I., 1, 314; A., 159, 74	vi., 1137; 24, 1034
" "	$\text{CHMe}_2\text{CH}_2\text{CH}_2\text{I}$	"	149	Liquid	Grimm	J. p. C., 62, 385	vi., 111
" "	"	"	148·25 c.	....	Perkin	....	45, 462
" "	"	"	148·2	....	....	A., 95, 344	
" "	"	"	147 (740)	....	Kopp	J. [1853], 37	vi., 111
" "	"	"	147·2-147·7	....	"	A.	
" "	"	"	146	....	Cahours	A. C. [2], 70, 81	i., 205
" "	"	"	146	....	Frankland	J., 3, 478	
" "	"	"	146	....	Gladstone & Tribe	30, 361	26, 679
" "	"	"	147	....	Haagen	P. A., 131, 117	
" "	primary active	"	144-145	....	....	B. S., 25, 545	
" "	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CHI}\text{CH}_3$	"	146 (763)	....	Wurtz	J., 21, 446	
" "	"	"	147	....	Romburgh	R. T., 1, 151	44, 303
" "	"	"	143-146	....	Le Bel	C. R., 73, 499	24, 1025
" "	"	"	145	....	"	C. R., 75, 267	25, 886
" "	"	"	144-145	....	Wagner & Saytzeff	A., 179, 318	29, 548
" "	$\text{CHMe}_2\text{CHI}\text{CH}_3$	"	137-139	....	Wischnegradsky & Flawitzky	B., 10, 406	32, 420
" "	"	"	137-139	....	Wischnegradsky	C. R., 86, 973	34, 717
" "	"	"	130	....	Le Bel	C. R., 75, 276	25, 886
" "	"	"	130 (760); 50-55 i. v.	....	Wurtz	C. R., 65, 1182	vi., 115
" "	"	"	129	....	"	"	vi., 114
" "	"	"	127-129	....	Butlerow	B., 10, 407	32, 589
" "	"	"	129-130	....	Flawitzky	A., 179, 348	
" "	"	"	125-127	....	Ossipoff	B., 8, 542	28, 877
" "	"	"	125	....	Etard	C. R., 86, 488	34, 393
" "	$(\text{CH}_3\text{CH}_2)_2\text{CHI}$	"	145-146	....	Wagner & Saytzeff	A., 179, 317	29, 548
" "	"	"	145	....	Kannonikoff and Saytzeff	A., 175, 374; J. p. C. [2], 23, 465	28, 628
" "	(?)	"	144-146	....	Demarçay	C. R., 77, 360	26, 1227
" "	$(\text{CH}_3)_2\text{Cl}\text{CH}_2\text{CH}_3$	"	128-129	....	Wischnegradsky & Flawitzky	B., 10, 405; J. R., 9, 156	32, 420
" "	"	"	127-129	....	Wischnegradsky	A., 190, 337	34, 394
" "	"	"	127-128	....	"	C. R., 86, 973	34, 717
" "	"	"	127-129	....	Winogradow	A., 191, 131	34, 484
" "	"	"	b. 125	....	Ossipoff	B., 8, 1243	29, 545
" "	"	"	115-120	....	"	B., 8, 542	28, 877
Triiodobenzene	$\text{I.II}=1.2.4$	$\text{C}_6\text{H}_3\text{I}_3$	....	76	Kekulé	A., 137, 165	vi., 267
Diiodobenzene	$\text{I.I}=1.4$	$\text{C}_6\text{H}_4\text{I}_2$	250	122	Schützenberger	C. R., 52, 963; R., 3, 145; 4, 268	vi., 267, 30
"	"	"	277; 285 c.	127	Kekulé	A., 137, 164	vi., 267
"	"	"	....	127 u. c.	Dumreicher	B., 15, 1869	vii., 138
"	"	"	....	129·4	Körner	G. I., 4, 305	29, 239
"	$\text{I.I}=1.3$	"	284·7 (756·48)	40·4	"	"	29, 222
"	"	"	....	36·5	Rudolph	B., 11, 81	
"	$\text{I.I}=1.2$	"	s. a. 1·4 & 1·3	Solid	Körner	G. I., 4, 305	29, 233
"	$\text{I.I}=1.2$ (?)	"	....	94	....	....	vii., 138
Iodobenzene	$\text{C}_6\text{H}_5\text{I}$	$\text{C}_6\text{H}_5\text{I}$	185-190	b. -18	Schützenberger	C. R., 52, 963	vi., 267
"	"	"	185	....	Ladenburg	A., 159, 255	
"	"	"	188·2 c.	....	Kekulé	J., 19, 554	
"	"	"	190	....	Paternò	G. I. [2], 488	28, 757
"	"	" (?)	260	....	Scrugham	7, 244	iv., 415
Dipropargyl tetriodide	$\text{CHI}:\text{Cl}(\text{CH}_2)_2\text{Cl}:\text{CHI}$	$\text{C}_6\text{H}_6\text{I}_4$	....	113	Henry	B., 14, 399	40, 565
Diallyl tetriodide	$\text{CH}_2\text{I}\text{CHI}(\text{CH}_2)_2\text{CHI}\text{CH}_2\text{I}$	$\text{C}_6\text{H}_{10}\text{I}_4$	a. 100	A., 100, 363	
" hydriodide	$\text{C}_6\text{H}_{11}\text{I}$	164-165	Wurtz	A. C. [4], 3, 129	vi., 93

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Iodohexylene....	$C_6H_{11}I$	142-145	Bouchardat	C. R., 74, 809	25, 410
"	"	130-132	Destrem	B., 16, 229; A. C. [5], 27, 5	
Hexyl iodide....	$CH_3(CH_2)_4CH_2I$	$C_6H_{13}I$	181.4 (746.8)	....	Lieben and Jauccek	A., 187, 138	32, 880
"	"	"	179.5 (752.5)	....	"	"	"
"	"	"	179.5	....	Franchimont and Zincké	B., 4, 822; A., 163, 196	25, 61; vii., 646
"	$Me_2CH.CH_2.CH_2.CH_2I$	"	172-175	....	Pelouze & Cahours	C. R., 54, 1241	iii., 153
"	$CH_3(CH_2)_3CHI.CH_3$	"	168	....	"	"	iii., 154
"	"	"	167	....	Hecht	A., 165, 147; B., 11, 1422	
"	"	"	165-170	....	Wurtz	A. C. [4], 3, 129	vi., 700
"	"	"	167.5 (752)	....	Wanklyn & Erlenmeyer	J., 16, 518	
"	"	"	165	....	"	J., 14, 732	
"	"	"	125.75-126.5 c. (220)	....	Perkin	....	45, 463
"	"	"	102 (98)	....	Krafft	B., 9, 1086	
"	$CH_3CH_2CH_2CHI.CH_2CH_3$	"	164-166	Liquid	Connick	C. R., 182, 92	29, 694
"	....	"	154-160 u. c.	....	Lieben and Zeisel	M. C., 4, 44	44, 570
"	From fusel oil	"	150	....	....	A., 128, 228	
"	....	"	100 (70)	....	....	A., 178, 18	
"	$Me_3C.CHI.CH_3$	"	140-144	....	....	J. [1873], 339	
"	$Me_2CI.CH_2.CH_2.CH_3$	"	142	....	....	A., 195, 254	
"	"	"	139-140	....	....	A., 209, 84	
"	$Me_2CI.CHMe_2$	"	140	s. —22	Pawlow	B., 11, 513	34, 563
"	"	"	abt. 140	s. —3	Kaschirsky	B., 11, 984	36, 46
"	"	"	140-142 p. d.	s. —0	"	C. C. [1881], 278	42, 37
"	"	"	140-144	Liquid	Friedel and Silva	C. R., 76, 226	vii., 982; 26, 489
Iodotoluene....	$Me.I=1.4$	C_7H_7I	211.5	35	Körner	Z. C. [2], 5, 636	vi., 284
"	"	"	200-210	20+	Dreher and Otto	A., 154, 171	vii., 1166
"	$Me.I=1.3$	"	204	Liquid	Beilstein and Kuhlberg	A., 158, 349	24, 682
"	"	"	205	Liquid	"	Z. C. [2], 3, 102	vii., 1166
"	$Me.I=1.2$	"	204	Liquid	"	A., 158, 347	24, 683
"	"	"	205-205.5; 211 c.	....	Kekulé	B., 7, 1007	28, 64
Benzyl iodide....	$C_6H_5.CH_2I$	"	abt. 240	24.1	Lieben	Z. C. [2], 6, 736	vii., 179
Methylpropylallylene hydriodide	$Me(CH_2)_3CI:CHMe$ or $Me(CH_2)_2CH:CI.CH_2.Me$	$C_7H_{13}I$	140-150 d.	Liquid	Morris	41, 179	
Heptyl iodide....	$CH_3(CH_2)_6CH_2I$	"	201 (754.8)	Liquid	Cross	A., 189, 4	32, 126
"	....	"	196	....	Wills	6, 311	
"	....	"	190	....	Schorlemmer	16, 219	iii., 147
"	....	"	192	....	Petersen	A., 118, 74	"
"	$Pr^{\alpha_2}CHI$	$C_7H_{15}I$	185	....	....	J. [1869], 514	
"	$Pr^{\beta}CHI$	"	180 p. d.	....	Kurtz	A., 161, 205	25, 411; vii., 1025
"	$Pr^{\beta}(CH_2)_2CHI.CH_3$	"	165-175 p. d.	....	Rohu	A., 190, 313	34, 486
"	....	"	170	....	Schorlemmer	16, 220	iii., 149
"	$Pr^{\beta}.MeEtCI$	"	145-147	....	Kaschirsky	C. C. [1881], 278	42, 37
"	"	"	145-147	Liquid — 15	"	B., 11, 985	36, 46
"	$CMe_3.CMe_2I$	"	142 d.	....	"	C. C. [1881], 278	42, 37
"	"	"	140-142 p. d.	....	Butlerow	A., 177, 184	28, 1249
"	From $CH_3(CH_2)_5CH_3$	"	98 (50)	Liquid	Venable	B., 13, 1649	40, 82
Tolylene diiodide....	$C_6H_4(CH_2I)_2$	$C_8H_8I_2$	....	170 p. d.	Grimaux	C. R., 70, 1363; A. C. [4], 26, 331	vii., 1209; 25, 817
Octyl iodide....	$Me_2CH.(CH_2)_4CH_2I$	$C_8H_{17}I$	220-222	....	Zincké	A., 152, 5	vi., 878
"	"	"	221	....	Conrad & Bischoff	B., 13, 597	38, 628
"	"	"	218-222	....	Möslinger	B., 9, 998	30, 393
"	....	"	192-194 c. (330)	....	Perkin	....	45, 463

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Octyl iodide	$C_8H_{17}CH_2I$	$C_8H_{17}I$	211 d.	....	Bouis	A. C. [3], 44, 131	iv., 171
" "	"	"	210	....	"	J., 8, 526	vi., 880
" "	"	"	206-207	....	Jahn	B., 15, 1293	
" "	"	"	193	....	Squire	7, 108	iv., 171; vi., 880
" "	Secondary	"	120 i. v.	....	Clermont	B. S. [2], 12, 212	vi., 880
Propyl iodobenzene	$Pr^{\alpha}I=1.4$	$C_9H_{11}I$	250	Liquid	Louis	B., 16, 110	
Isopropyl iodobenzene	$Pr^{\beta}I=1.4$	"	234	Liquid	"	B., 16, 114	
β -Iodonaphthalene ....	....	$C_{10}H_7I$	....	54.5	Jacobsen	B., 14, 803	40, 736
α- " " ....	....	"	a. 300	Liquid	....	A., 147, 173	
Isobutyl iodobenzene	$(CH_2CHMe_2)I=1.4$	$C_{10}H_{13}I$	255-256 c.	Easily	Pahl	B., 17, 1232	46, 1009
Cajeputene hydriodide	$C_{10}H_{16}HI + 1\frac{1}{2}H_2O$	$C_{10}H_{17}I$	....	80	....	J. [1860], 483	
Turpentine dihydriodide	$C_{10}H_{16}2HI$	$C_{10}H_{18}I_2$	....	48	Oppenheim	A., 129, 149	v., 923
Diiododiphenyl	$C_6H_4IC_6H_4I=(1.4)_2$	$C_{12}H_8I_2$	....	202	Schmidt & Schultz	B., 12, 486	36, 652
(?)	....	$C_{15}H_{25}I$	143-145 (5)	....	Cannizzaro & Amato	B., 7, 1103	28, 163
Cetyl iodide ....	....	$C_{16}H_{33}I$	....	22	Fridau	A., 83, 9	i., 841
Myricyl iodide ....	....	$C_{30}H_{61}I$	....	67	Maskelyne	22, 87	vi., 391
" " ....	....	"	....	69.5	Pieverling	A., 183, 347	31, 586

(5.) CHO

Formic acid	$H.CO_2H$	CH_2O_2	98.5	+1	Liebig	....	ii., 687
" "	"	"	100	....	Person	J., 1, 91	"
" "	"	"	100.5	....	Pettersson and Ekstrand	B., 13, 1194	38, 869
" "	"	"	101.1 (758)	....	Roscoe	15, 271	ii., 687
" "	"	"	105.3 (760)	....	Kopp	J. [1847-8], 68	"
" "	"	"	100.5 (749)	7.45	Pettersson	J. p. [2], 24, 293	42, 3 and 4
" "	"	"	101 c.	8	Perkin	....	45, 480
" " ....	"	"	....	8.6	Berthelot	C. R., 76, 1433 ; B. S. [2], 22, 440	26, 1099 ; 28, 749
" "	"	"	99.8-100.3	....	Landolt	P. A., 117, 353	
" " ....	"	"	....	2	Bannow	G. J. C., 1876	
" "	"	"	99.8-105.4	....	Lossen	A., 214, —	
" "	For tension tables	"	see Part III.				
Methylalcohol	$H.CH_2OH$	CH_4O	60-66.5	....	....	....	iii., 988
" "	"	"	64.8	....	Vincent and Delachanal	C. R., 90, 747	38, 525
" "	"	"	65	....	Ostwald	J. p. C., 27, 1	44, 575
" "	"	"	65.2	....	Thorpe	35, 544	
" "	"	"	66-66.5	....	Linnemann	Z. C. [2], 4, 284	vi., 827
" "	"	"	=67.1 c.				
" "	"	"	66-67	....	Lieben and Rossi	A., 158, 107	24, 344
" "	"	"	66-68	....	Lieben and Paternò	G. I., 3, 290	27, 357
" "	"	"	66.5	....	Dumas and Peligot	A. C. [2], 58, 5	
" "	"	"	60 (744)	....	Kane	A., 19, 164	
" "	"	"	66.7	....	Regnault	M. A. S., 26, 658	
" "	"	"	66.3	....	Pierre	A. C. [3], 15, 325	
" "	"	"	65.5	....	Kopp	P. A., 1847	
" "	"	"	64.6-65.2 (744)	....	"	G. J. C., 1855	
" "	"	"	65.8	....	Andrews	J., 1, 89	
" "	"	"	65.8-66 c.	....	Perkin	....	45, 465
" "	"	"	66.5	....	Person	J., 1, 91	
" "	"	"	60.5	....	Delffs	J., 7, 26	
" "	"	"	58.6	....	Dupré	P. A., 148, 236	
" "	"	"	66	....	Graham	G. J. C., 1862	
" "	"	"	66 (753)	....	Landolt	G. J. C., 1864	
" "	"	"	65.6-66.2 (765)	....	Grodzki & Kramer	G. J. C., 1876	
Acid from leaves of viscum album	$C_2H_3O_3.OH$	CH_4O_4	....	101-103	Pavlevsky	B. S. [2], 34, 348	40, 441

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Glycollic anhydride	$\text{CH}_2\text{O.CO}^*$	$\text{C}_2\text{H}_2\text{O}_2$	....	128-130	Thomson and Fahlberg	A., 200, 75 ; J. p., 7, 335	38, 380
Glycolide	$\text{CH}_2\text{O.CO.CH}_2\text{O.CO (?)}$	"	....	180	Fahlberg	J. p. [2], 8, 329	vii., 570 ; 27, 143
" ....	"	"	....	180	Dessaigues	A., 89, 342	ii., 919
" ....	"	"	....	180	Böttiger	B., 14, 729	40, 714
" ....	"	"	....	220	Norton & Tcherniak	C. R., 86, 1332 ; B. S., 30, 102	34, 773
Oxalic acid	COOH.COOH	$\text{C}_2\text{H}_2\text{O}_4$	....	212	Richter	Tabellen	
" " ....	"	"	....	200, 203	Carnelley	33, 275	
" " (crystallized)	$(\text{COOH})_2 + 2\text{H}_2\text{O}$	"	....	186-187	Staub and Smith	45, 304	
" " ....	"	"	....	abt. 98	....	....	iv., 250
" " ....	"	"	....	98.5	Tilden	45, 268	
Ethylene oxide	$\text{CH}_2\text{O.CH}_2$	$\text{C}_2\text{H}_4\text{O}$	13.5	Liquid	Wurtz	J., 16, 486	ii., 579
" ....	....	$(\text{C}_2\text{H}_4\text{O})_n$	....	56	"	C. R., 83, 1141 ; B., 10, 90	31, 291
Acetic aldehyde	CH_3COH	$\text{C}_2\text{H}_4\text{O}$	20.8 (760)	Liquid	Kopp	A., 1855 or 1856	i., 106
" "	"	"	21	....	Cazeneuve	J. P. [5], 5, 494	42, 1003
" "	"	"	21-22 c.	....	Perkin	....	45, 475
" "	"	"	21	....	Ramsay	35, 469	
" "	"	"	21.8	....	Liebig	A., 14, 132	
" "	"	"	22 (758.2)	Liquid	Pierre	C. R., 27, 213 ; P. A., 76, 458	i., 106
" "	"	"	23-28	....	Guckelberger	J., 1, 848	
" "	"	"	19.8 (734)	....	Kopp	P. A., 72, —	
" "	"	"	20.8 (759)	....	Landolt	A., 131, 172	
" " ....	....	$(\text{C}_2\text{H}_4\text{O})_n$	81	Liquid	Liebig	A., 14, 133 ; 36, 376	i., 109
" " ....	....	"	90	....	(?)	(?)	(?)
" " ....	....	"	94	Liquid	Liebig	....	vii., 32
Elaldehyde ....	....	" (?)	94	+2	Fehling	A., 27, 319	i., 109
Isomer of aldehyde ....	....	"	110	....	Bauer	J., 13, 436	
" " ....	....	"	280-285	....	....	J. [1878], 612	
Metaldehyde & Paraldehyde	see $\text{C}_6\text{H}_{12}\text{O}_3$						
Methylic formate	H.COOMe	$\text{C}_2\text{H}_4\text{O}_2$	30.4 (712)	Liquid	Volhard	A., 176, 135 ; 166, 128	28, 877
" "	"	"	32-32.5 c.	....	Perkin	....	45, 490
" "	"	"	31.6-32.4 (764.8)	....	Kremer & Grodzky	B., 9, 1928	
" "	"	"	32	....	Bardy and Bordet	A. C. [5], 16, 561 ; C. R., 88, 183	36, 520
" "	"	"	32.3	....	Elsasser	A., 218, 302	44, 967
" "	"	"	33	....	Ramsay	35, 469	
" "	"	"	33.4 (760)	....	Kopp	P. A., 72	
" "	"	"	32.9	....	Andrews	J., 1, 89	
" "	"	"	36-38	....	Liebig	....	ii., 695
" "	"	"	32.3	....	Schumann	G. J. C., 1881	
Acetic acid	CH_3COOH	"	113	....	Ramsay	35, 469	
" "	"	"	114	....	Mitscherlich		
" "	"	"	117.1	....	Pettersson and Ekstrand	B., 13, 1194	38, 869
" "	"	"	117.1 (749)	16.55	Pettersson	J. p. [2], 24, 293	42, 3
" " ....	"	"	....	16	Lowitz	....	i., 10
" " ....	"	"	....	16	Regnault	J. [1863], 74	vii., 6
" "	"	"	117 (763)	16.45	Oudemans	Z. C. [1866], 750	vi., 7
" "	"	"	118	16.5	Longuinine	B., 6, 564	26, 1101
" "	"	"	118	....	Landolt	P. A., 117, 353	
" "	"	"	117.8 (760)	16.7	Rüdorff	B., 3, 391 ; P. J. T., [2], 2, 241	vii., 5 ; 24, 1094
" " ....	"	"	....	17	Baeyer	B., 10, 1287	34, 4
" "	"	"	116	17	Delffs	A. 92, 277	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Acetic acid	CH_3COOH	$\text{C}_2\text{H}_4\text{O}_2$	118.1 c.	....	Linnemann	A., 162, 39; 160, 195	vii., 203
" "	"	"	120	....	Dumas		
" "	"	"	120	....	Person	J., 1, 91	
" "	"	"	116.9-119	....	Lossen	A., 214, 154	
" "	"	"	120	....	Nessler	Lw., 24, 284	38, 515
" " ....	"	"	....	22.5	Mollerat	A. C. [1], 68, 88	i., 10
" "	"	"	117.3 (760)	....	Kopp	P. A., 72	"
" "	"	"	119	....	Sebille-Anger	....	"
" "	"	"	118.5 ;	....	Pawlewski	B., 16, 2633	46, 252
" "	"	"	321.5 c. t.				
" "	"	"	118-118.5 c.	....	Perkin	....	45, 481
" "	"	"	118-118.8 c.				
" " (hydrate)	"	"	104	....	....	....	i., 11
Methylene oxide	$\text{CH}_2\text{O.O.CH}_2$	"	s. a. 152	152	Butlerow	A., 111, 242; 120, 295	iii., 1007
Glycollic acid	$\text{CH}_2(\text{OH}).\text{COOH}$	$\text{C}_2\text{H}_4\text{O}_3$	begins 100	78-79	Schulze	Z. C. P. [1862], 606	ii., 910
" " ....	"	"	....	78-79	Drechsel	A., 127, 150	
" " ....	"	"	....	76-77	Thomson	G. J. C., 1879	
" " ....	"	"	....	80	Fahlberg	J. p. [2], 7, 329	vii., 569; 27, 143
Methyl oxide....	$\text{CH}_3\text{O.CH}_3$	$\text{C}_2\text{H}_6\text{O}$	-20	....	Berthelot	....	iii., 990
" "	"	"	-21	....	"	....	ii., 537
" "	"	"	-23.65	....	Regnault	M. A. S., 26, 658	
" "	"	"	c. -30 (760)	....	Tellier	A. C. [5], iii., 502	28, 488
" "	"	"	c. 0 (2.5 ats.)	....	"	"	"
" "	"	"	c. 30 (6.5 ats.)	....	"	"	"
Ethyl alcohol....	$\text{CH}_3\text{CH}_2\text{OH}$	"	76	....	Dumas and Boullay	P. A., 12, 93	
" "	"	"	77.9	....	Andrews	J., 1, 89	i., 72
" "	"	"	77-77.5	....	Linnemann	J., 21, 413	
" "	"	"	78.5	....	Perkin	....	45, 465
" "	"	"	78	....	Ramsay	....	35, 469
" "	"	"	78.21	....	Pictet	P. M. [5], 1, 477	31, 163
" "	"	"	78.4 (760)	....	Gay-Lussac	....	i., 73
" "	"	"	78.4 (760)	....	Kopp	A., 72, 1	"
" "	"	"	78.8	....	"	A., 55, 166	26, 1082
" "	"	"	78.1-79	....	Darling		
" "	"	"	78.3 (760)	....	Regnault	M. A. S., 26, 658	
" "	"	"	78.4	....	Berthelot	....	35, 544
" "	"	"	78.3	....	Pierre	A. C. [3], 15, 325	
" "	"	"	78	....	Erlenmeyer	A., 162, 374	
" "	"	"	79	....	Pierre and Puchot	A. C. [4], 22, 260	
" "	"	"	78.4	....	Vincent and Delachanal	C. R., 90, 747	38, 524
" "	"	"	78.4	....	Person	J., 1, 91	
" "	"	"	78.53 (760)	....	Linnemann	A., 160, 195	vii., 203
" "	"	"	78.25	....	Delffs	J., 7, 26	
" "	"	"	78.3-78.307 (760)	....	Mendeljeff	J., 18, 469	
" "	"	"	80.6	....	Fownes	P. T. [1847], 249	
" "	"	"	81	....	Wackenroder	J., 1, 682	
" "	"	"	78.05 (760)	....	Main	G. J. C., 1877	
" " ....	"	"	....	s. - 130.5	Wroblewski and Olzewski	C. R., 96 1225; P. J. T. [1884], 814	44, 781
Methyl oxide....	Me_2O	"	gas	....	Erlenmeyer and Kriechbaumer	B., 7, 699; J. [1863], 70	
Ethylene glycol	$\text{CH}_2\text{OH.CH}_2\text{OH}$	$\text{C}_2\text{H}_6\text{O}_2$	193	....	Atkinson	P. M. [4], 16, 437	
" "	"	"	194 c.	....	Zeller and Hüfner	J. p. [2], 10, 270	28, 442
" "	"	"	195	....	Ramsay	35, 469	
" "	"	"	197-197.5	Liquid	Wurtz	A. C. [3], 55, 410	ii., 575
" "	"	"	196-199 c.	....	Perkin	....	45, 504

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Propargylic acid	CH : C.COOH	C ₃ H ₂ O ₂	140-145	6	Bandrowski	B., 15, 2701	44, 314
" "	"	(C ₃ H ₂ O ₂) _n	....	145	"	B., 12, 2215	38, 160
Mesoxalic acid (see C ₃ H ₄ O ₅)	CO(COOH) ₂	C ₃ H ₂ O ₅	....	108	Böttinger	A. 203, 138	40, 415
Acrolein	CH ₂ : CH.CH : O	C ₃ H ₄ O	50	....	Brühl	A., 200, 139	38, 296
"	"	"	52	....	Redtenbacher	A., 45, —	
"	"	"	52.4	Liquid	Hübner & Geuther	A., 114, 35	i., 56
Metacrolein	see C ₉ H ₁₂ O ₃						
Allylene oxide	CH ₂ .C : CH.O	"	62-63	Liquid	Carstanjen	J. p. [2], 4, 419	vii., 50
"	"	"	62-63	Liquid	Berthelot	A. C. [4], 23, 212	25, 143
Propargyl alcohol	CH : C.CH ₂ OH	"	114-115	....	Brühl	A., 200, 139	38, 296
"	"	"	114-115	....	Henry	B., 6, 728	vii., 1007; 26, 1123
"	"	"	110-115(762)	Liquid	"	B., 5, 569	25, 807
Acrylic acid	CH ₂ : CH.COOH	C ₃ H ₄ O ₂	....	Liquid	....	....	i., 57
"	"	"	140-150	s. 15	Caspary and Tollens	B., 5, 560	vii., 27; 25, 814
"	"	"	....	s. 7	Linnemann	A., 163, 95	vii., 27; 25, 689
Paracrylic acid	....	(C ₃ H ₄ O ₂) _n	....	68-69	Klimenko	B. S. [2], 34, 321	40, 414
"	"	"	....	180-182	Krestownikoff	B., 10, 410	32, 442
(?)	"	"	....	96	Roser	B., 15, 293	
Pyroracemic acid (pyruvic)	CH ₃ .CO.COOH	C ₃ H ₄ O ₃	155-165	Liquid	Claisen & Shadwell	B., 11, 621	34, 568
"	"	"	abt. 165 p.d.	Liquid	Volckel	J., 6, 426	iv., 770
"	"	"	165-170	....	Wichelhaus	G. J. C., 1867	
Malonic acid	COOH.CH ₂ COOH	C ₃ H ₄ O ₄	....	102	Grimaux & Tcherniak	B. S. [2], 31, 338	36, 783
"	"	"	....	131.5-132	Jackson and Hill	B., 11, 291	34, 402
"	"	"	....	132	Bischoff	B., 15, 1110	42, 1188
"	"	"	....	132	Petrieff	B., 7, 401	27, 787
"	"	"	....	132	Heintzel	A., 139, 132	29, 65
"	"	"	....	134	Lippmann	B., 14, 1185	40, 800
"	"	"	....	abt. 138	Pinner	B., 8, 965	29, 65
"	"	"	....	139-140	Demole	B., 11, 1714	36, 220
"	"	"	....	140	Dessaignes	A., 107, 251	iii., 799
Tartronic acid	CH(OH)(COOH) ₂	C ₃ H ₄ O ₅	....	145-147	Grinaux	B., 10, 903	
"	"	"	....	150-151	Demole	B., 10, 1789	34, 34
"	"	"	....	155	Gruber	B., 12, 516	
"	"	"	....	160 d.	....	....	v., 698
"	"	"	....	abt. 160	Campani & Bizzarri	G. I., 10, 489	40, 256
"	"	"	....	170	Brunner	B., 12, 547	
"	"	"	....	175	Text books	B., 14, 729	40, 714
"	"	"	....	179-185	Compani & Bizzarri	G. I., 12, 1	42, 818
"	"	"	....	182 d.	Conrad and Bischoff	B., 13, 600	38, 629
"	"	"	....	183	Böttinger	B., 14, 729	40, 714
"	"	"	....	185-187 d.	Conrad and Bischoff	A., 209, 222	42, 39
" (hydrate)	C ₃ H ₄ O ₅ + H ₂ O	"	s. 110-120	....	Richter	Tabellen	
Mesoxalic acid (see C ₃ H ₂ O ₅)	C(HO) ₂ (COOH) ₂	C ₃ H ₄ O ₆	....	96	Petrieff	B., 7, 404	27, 787
"	"	"	....	115	Deichsel	J. [1864], 640	vi., 824
Propylene oxide	CH ₂ .O.CHMe	C ₃ H ₆ O	35	Liquid	Oser	B. S. [1860], 237	vii., 1021
"	"	"	35	....	Le Bel	C. R., 92, 532	40, 1021
"	"	"	36	....	Belohoubek	B., 12, 1872	38, 232
"	CH ₂ .CH ₂ .O.CH ₂	"	abt. 50	Liquid	Reboul	A. C. [5], 14, 495	36, 133
"	"	(C ₃ H ₅ O) _n	160-170	....	"	"	"
Propionic aldehyde	CH ₃ .CH ₂ .COH	C ₃ H ₆ O	40-45 (740)	Liquid	Rossi	G. I., i., 230	24, 1030
"	"	"	46	....	Pierre and Puchot	Z. C., 13, 255; A. C. [4], 22, 298	vi., 962
"	"	"	47-47.5	....	Berthelot	C. R., 83, 413	30, 474
"	"	"	48	....	Brühl	A., 200, 139	38, 296
"	"	"	46-49.5	....	Lossen	A., 214, 154	
"	"	"	48.77 c.	....	Linnemann	A., 161, 20	25, 234

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Propionic aldehyde	$\text{CH}_3\text{CH}_2\text{COH}$	$\text{C}_3\text{H}_6\text{O}$	47-49 c.	....	Perkin	....	45, 476
" "	"	"	49.5 (740)	....	Rossi	C. R., 70, 129; A., 159, 79	vi., 962
" "	"	"	54-63	....	Michaelson	A., 133, 182	iv., 734
" "	"	"	55-65	....	Guckelberger	A., 64, 39	"
Dimethylketone (acetone)	$\text{CH}_3\text{CO}\cdot\text{CH}_3$	"	55.6	....	Liebig	P. A., 72	vi., 767
" "	"	"	53.3-56.6	....	Grodzki & Krämer	Z. C., 14, 103	
" "	"	"	56.3-56.53	....	Zander	A., 214, 172	
" "	"	"	55.6-55.9 c.	....	Perkin	....	45, 478
" "	"	"	57-58	....	Schrohe	B., 8, 368	
" "	"	"	57 u. c.	....	Spring	B., 14, 759	
" "	"	"	54-56	....	Pinner	B., 14, 1072	
" "	"	"	56	l.-15	Dumas	....	i., 26
" "	"	"	56	....	Deichmüller	A., 209, 22	40, 1162
" "	"	"	55-56	....	Freund	J., 13, 313	
" "	"	"	56.3 (763)	....	Regnault	....	37, 212
" "	"	"	56.3 (763)	....	Kopp	P. A., 72	"
" "	"	"	56.53 c. (760)	....	Thorpe	....	"
" "	"	"	56-58	....	Jahn	B., 13, 2110, 2115	
" "	"	"	56-57	....	"	B., 13, 2114	
" "	"	"	56-58	....	Japp and Streatfield	41, 271	
" "	"	"	56-58.5	....	Linnemann	A., 161, 59	25, 238
" "	"	"	56-59	....	"	"	"
" "	"	"	56-57	....	"	A., 143, 349	
" "	"	"	58	....	Cazeneuve	J. P. [5], 5, 494	42, 1003
" "	"	"	55-60	....	Popoff	Z. C. [2], 7, 4	24, 126
" "	"	"	232.8 c. t.	....	Sajotschewsky	W. B. [1879], 741	45, 139
Propylal	(?)	66	....	....	Limpricht & Uslar	....	24, 386
Allyl alcohol	$\text{CH}_2\text{:CH}\cdot\text{CH}_2\text{OH}$	"	88-89	....	Linnemann	B., 7, 854	27, 1157
" "	"	"	90-92	s.-54	Tollens & Henniger	A., 156, 134	vi., 91
" "	"	"	92-95	....	Hübner and Müller	A., 159, 174	
" "	"	"	93-96	....	Tollens, Weber, and Kempf	A., 156, 132	
" "	"	"	96.4-97.4	....	Zander	A., 214, 172	
" "	"	"	96.8 c.	....	Perkin	....	45, 536
" "	"	"	96-97	....	Tollens	A., 158, 104	vii., 47; 24, 346
" "	"	"	96-97	....	Henry	B., 5, 569	25, 807
" "	"	"	96-97	....	Aronheim	B., 7, 1381	28, 246
" "	"	"	96.5	....	Brühl	A., 200, 139	38, 296
" "	"	"	96.6 c. (766)	....	Thorpe	....	37, 210
" "	"	"	92-94	....	Erlenmeyer	J., 17, 489	
" "	"	"	96.5-96.8	....	Buff	B., 4, 647	24, 905
" "	"	"	97	....	Hartley	39, 154	
" "	"	"	90-100	....	Hofmann	....	i., 140
" "	"	"	103	Liquid	"	....	"
" "	"	"	103	....	Hofmann & Cahours	J., 9, 583	vi., 91
" " hydrate	$\text{C}_3\text{H}_6\text{O} + \text{H}_2\text{O}$	"	88-89	....	Aronheim	B., 7, 1381	28, 246
(?)	....	"	166-168	....	Heintz	A., 169, 114	27, 146
Ethyllic formate	$\text{H}\cdot\text{COOEt}$	$\text{C}_3\text{H}_6\text{O}_2$	52.9 (752)	Liquid	Pierre	C. R., 27, 213	P. A., 76, 458
" "	"	"	53.4	....	Liebig	....
" "	"	"	53	....	Delffs	J., 7, 26	
" "	"	"	54	Liquid	Marchand	....	ii., 693
" "	"	"	54.4 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	54.4	....	Elsasser	A., 218, 302	44, 967
" "	"	"	55.5	....	Löwig	J., 14, 599	
" "	"	"	54.3 (762)	....	Andrews	J., 1, 89	ii., 693
" "	"	"	54.9 (760)	....	Kopp	P. A., 72	"
" "	"	"	55	....	Ramsay	35, 469	
" "	"	"	54-57	....	Claisen & Matthews	41, 266	
" "	"	"	56	....	Dobereiner	P. A., 72	ii., 693
" "	"	"	54.2 c.	....	Perkin	....	45, 490
" "	"	"	55.7; 238.6 c.t.	....	Pawlewski	B., 15, 2463	44, 276

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl formate	Sajotschewsky	W. B. [1879], 741	45, 138
Methyl acetate	Löwig	A., 96	
"	"	"	56-58	....	Grodski & Krämer	Z. C., 14, 103	
"	"	"	55 (762)	Liquid	Andrews	1, 27	i., 23
"	"	"	56.3 (760)	Liquid	Kopp	A., 55, 181	"
"	"	"	57.5	....	Elsasser	A., 218, 302	44, 967
"	"	"	56-56.5 c.; 57.5 c.	....	Perkin	....	45, 493
"	"	"	58	....	Dumas and Peligot	P. A., 36, 117	
"	"	"	59.5	....	Pierre and Puchot	C. R., 27, 213; P. A., 76, 458	
"	"	"	58	....	Cahours	G. J. C., 1863	
"	"	"	57.5 (760)	....	Schumann	G. J. C., 1881	
"	"	"	229.8 c.t.	....	Sajotschewsky	W. B. [1879], 741	45, 138
"	"	"	57.1; 239.8 c.t.	....	Pawlewski	B., 15, 2463	44, 276
Acetyl carbinol	a. 100	....	Emmerling and Wagner	A., 204, 27	38, 868
Propionic acid	l. —21	Baeyer	B., 10, 1286	34, 4
"	"	"	57 (25)	....	Claisen and Moritz	37, 694	
"	"	"	139	....	Freund	J. F. P. [2], 5, 446	vii., 1010
"	"	"	140	s. o. t.	Dumas	....	iv., 731
"	"	"	140	....	Malaguti & Leblanc	J., 1, 551	
"	"	"	140.66	....	Linnemann	A., 162, 39	vii., 203
"	"	"	140.71 c. (760)	l. —21	"	A., 148, 251; 160, 195	vii., 1010
"	"	"	141.6	....	Vincent	B. S. [2], 31, 156	36, 612
"	"	"	141.5 (760)	....	Pierre and Puchot	A. C. [4], 28, 71	vii., 1010
"	"	"	146.6 (760)	....	"	C. R., 75, 250	26, 44
"	"	"	141-142 c.; 141.3 c.	....	Perkin	....	45, 481
"	"	"	142	....	Limpricht & Usler	J., 8, 508	
"	"	"	141.6 (760)	....	Kopp	A.	
"	"	"	140	....	Landolt	P. A., 117, 353	
"	"	"	139	....	Linnemann	J., 21, 433	
"	"	"	140.1-141.6 (755-756)	....	Lossen	A., 214	
"	"	"	138.5; 339.9 c.t.	....	Pawlewski	B., 16, 2633	46, 252
"	"	"	For table of b. p.'s. at different pressures, see Part III	....	Kahlbaum	B., 16, 2476	46, 141
Glycide (epihydrin alcohol)	Hanriot	C. R., 88, 387	36, 449
"	"	"	157 (760)	....	"	A. C. [5], 17, 112	36, 1032
"	"	"	157-160 d.	....	"	B. S. [2], 23, 160	28, 879
"	"	"	161-163	Liquid	Gegerfelt	J. p. [2], 20, 192	38, 29
Bergamot camphor	160	....	Breslauer	A., 31, 70	i., 581
Lactic acid	206	Mulder	....	iii., 456
Dimethyl carbonate	90.6 c.	0.5	Röse	A., 205, 231	40, 252
"	"	"	91 (730)	....	Schreiner	J. p. [2], 22, 357	40, 88
"	"	"	92-97	....	Counciler	B., 13, 1697	40, 251
Methylglycollic acid	198	....	Heintz	J., 12, 359	
"	"	"	178	....	Schreiner	B., 12, 179	
Methyl glycollate	151.2	....	"	B., 12, 179; A., 197, 6, 21	36, 522
Glyceric aldehyde	130-135	71-72	Rénard	C. R., 82, 562	30, 64; 42, 1308
"	"	"	92	"	C. R., 81, 188	28, 1250
Trioxymethylene	155	Bartoli & Papasogli	G. I., 13, 287	46, 170
"	"	"	152; a.s. 171. 172	Tollens	B., 16, 919	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylethylaldehyde	CH ₃ .O.C ₂ H ₅	C ₃ H ₈ O	11	....	Williamson	J., 4, 511	ii., 537
"	"	"	11	....	Wurtz	J., 9, 563	
Isopropyl alcohol	CH ₃ .CH(OH).CH ₃	"	80-82	....	Linnemann	W. A., 63, 255	vii., 982
"	"	"	81-85	....	"	B., 10, 1111	32, 729
"	"	"	82-85 c. (760)	....	"	A., 161, 26	vii., 1015
"	"	"	82-85 c. (725)	....	"	A., 161, 43	25, 236
"	"	"	83-84 (739)	b. -20	"	A., 136, 37	v., 889
"	"	"	82	Liquid	Regnault & Hardy	J. P. [4], 30, 405	38, 456
"	"	"	82-5-83-5 c.	....	Perkin	....	45, 467
"	"	"	82-84	....	Lossen	A., 214, 154	
"	"	"	83-84	....	Schepper and Tak	Z. C. [2], 4, 124	vi., 965
"	"	"	83-85	....	Siersch	A., 144, 141	"
"	"	"	85	....	Weidel and Gruber	B., 10, 1137	32, 780
"	hydrate	"	85	....	Rabateau	C. R., 87, 501	36, 36
"	"	(C ₃ H ₈ O) ₂ .H ₂ O	80	....	Linnemann	A., 136, 40	
"	"	(C ₃ H ₈ O) ₃ .2H ₂ O	78-80	....	"	"
"	"	(C ₃ H ₈ O) ₃ .H ₂ O	81	....	"	"
Propyl alcohol	CH ₃ .CH ₂ .CH ₂ .OH	C ₃ H ₈ O	84-91	....	"	A., 148, 251	vi., 963
"	"	"	92-96	....	Schorlemmer	A., 150, 159	vi., 957
"	"	"	96	....	"	P. R. S., 17, 372	vi., 963
"	"	"	95-96	....	Etard	C. R., 86, 488	34, 393
"	"	"	96-97	....	Chancel	C. R., 37, 410	v., 889
"	"	"	96 (743)	....	Rossi	C. R., 70, 129 ; G. I., 1, 230 ; A., 159, 79	vi., 963 ; 24, 1031
"	"	"	96 (758)	....	Saytzeff	J. p. [2], 3, 76 ; Z. C., 13, 107	24, 229
"	"	"	96	....	Gladstone & Tribe	39, 4	
"	"	"	97	....	Rabateau	C. R., 87, 501	36, 36
"	"	"	97	....	Brühl	A., 200, 139	38, 296
"	"	"	96-98	....	Lossen	A., 214, 153	
"	"	"	97-3 (760) ; 79-3 (370) ; 56-0 (120)	....	Brown	P. R. S., 26, 238	32, 838
"	"	"	97-41	....	Linnemann	A., 161, 26 ; A., 162, 39	vii., 203, 1013 ; 25, 235
"	"	"	95-100	....	Fitz	B., 13, 36, 1311	38, 372
"	"	"	97-98	....	Chapman & Smith	7, 198	vi., 963
"	"	"	98 c.	....	Perkin	....	45, 466
"	"	"	97	....	Bertoni and Truffi	G. I., 14, 23	46, 1110
"	"	"	96-100	....	Krämer and Pinner	B., 3, 77	
"	"	"	97-98	....	Schorlemmer	....	27, 1030
"	"	"	98-5	....	Pierre and Puchot	C. R., 66, 302	39, 4 ; vi., 963
"	"	"	97-100	....	Chancel	C. R., 68, 659	vi., 963
"	"	"	97-101	....	"	A., 151, 302	
"	hydrate	C ₃ H ₈ O + H ₂ O	87-5 (738)	....	"	C. R., 68	vi., 963
Methylal	CH ₂ (OMe) ₂	C ₃ H ₈ O ₂	42 (761)	Liquid	Malaguti	A. C. [2], 70, 390	iii., 994
"	"	"	43 (236-6 c. t.)	....	Pawlewski	B., 16, 2633	46, 252
Propylene glycol	CH ₃ .CH(OH).CH ₂ (OH)	"	185-186	....	Jeltekow	B., 6, 558	26, 1016
"	"	"	187 c.	....	Belohoubek	B., 12, 1873	38, 232
"	"	"	185-2-188-5	....	Zander	A., 214, 154	
"	"	"	188-189	....	Wurtz	J., 10, 464	v., 892
"	"	"	188	....	Hanriot	C. R., 86, 1139	34, 656
"	"	"	188	....	Le Bel	C. R., 89, 312	36, 1031
"	"	"	189	....	Loebisch and Looss	M. C., 2, 789	42, 377
"	"	"	185-3	....	Flawitzky	B., 11, 1256	
Trimethylene glycol	CH ₂ (OH).CH ₂ .CH ₂ (OH)	"	208-218	Liquid	Geromont	A., 158, 369 ; B., 4, 548	vii., 49, 1021 ; 24, 698
"	"	"	....	Viscid -30	Niederist	M. C., 3, 838	44, 450
"	"	"	215-216 c.	....	Reboul	A. C. [5], 14, 491	36, 133
"	"	"	216	....	"	C. R., 79, 169	42, 156

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Trimethylene glycol....	$\text{CH}_2(\text{OH}).\text{CH}_2.\text{CH}_2(\text{OH})$	$\text{C}_3\text{H}_8\text{O}_2$	216-217	....	Reboul	C. R., 78, 1773	27, 977
" "	"	"	216-216.5 c. (736)	....	Freund	M. C., 2, 636	42, 156
Glycerol	$\text{CH}_2(\text{OH}).\text{CH}(\text{OH}).\text{CH}_2(\text{OH})$	$\text{C}_3\text{H}_8\text{O}_3$	....	20	Nitsche	G. J. C., 1873	
"	"	"	179.5 (12.5); 210 (50)	....	Bolas	24, 84	vii., 563
" ....	"	"	....	17	Henninger	G. J. C., 1875	
" ....	"	"	....	15.4	Armstrong	G. J. C., 1876	
"	"	"	290.08 c. (756.55)	....	Oppenheim & Salzmann	B., 17, 1623	28, 442
"	"	"	290-290.5 c.	....	Perkin	....	45, 507
"	"	"	275-280	....	Kekulé	Lehrbuch, 2, 125	
"	"	"	280 d.	....	Strecker	Lehrbuch, 448	
"	"	"	290 c. (759.7)	....	Mendeljeff	A., 114, 165	
" ....	"	"	....	7.2	Gladstone	20, 384	vi., 638
" ....	"	"	....	15.5	Hamel Roos	....	29, 651
Propyl phycite	$\text{C}_3\text{H}_4(\text{OH})_4$	$\text{C}_3\text{H}_8\text{O}_4$	a. 150	....	Carius	A., 134, 71	v., 893
Fumaric anhydride	$(\text{C}_4\text{H}_2\text{O}_2)''\text{O}$	$\text{C}_4\text{H}_2\text{O}_3$	176	57	Pelouze	A. C. [2], 56, 72	ii., 746
Maleic anhydride	$\text{CO.CH}:\text{CH.CO.O}$	"	192-198	Crystalline	Perkin	B., 14, 2548	39, 562
" "	"	"	196	57	Kekulé	As., 2, 87	iii., 788
" "	"	"	202 c.	53	Anschütz	B., 12, 2281	
" "	"	"	201-202 (o.d.)	....	"	B., 14, 2791	
" "	"	"	82 (14)	53-54	"	"	
" "	"	"	80 (11-12)	....	"	B., 15, 641	
Acetylene dicarboxylic acid	$\text{COOH.C}:\text{C.CO.OH}$	$\text{C}_4\text{H}_2\text{O}_4$	....	175	Bandrowski	B., 15, 2694	44, 313
" " " (hydrate)	$\text{C}_4\text{H}_2\text{O}_4 + 2\text{H}_2\text{O}$	"	....	d. 100	"	B., 10, 838	32, 592
Taiguic acid ....	....	$\text{C}_4\text{H}_4\text{O}$	....	135	Arnaudon	J. [1858], 264	v., 655
Tetraphenol ....	....	$\text{C}_4\text{H}_4\text{O}_2$	32	Liquid	Limpricht	A., 165, 282	26, 624; vii., 1032
Tetrolic acid	$\text{CH}_3.\text{C}:\text{C.CO.OH}$ or $\text{CH}:\text{C.CH}_2.\text{CO.OH}$	"	197-205	76	Lagermark	B., 12, 854	38, 782
" " ....	"	"	....	76	Kahlbaum	B., 12, 2338	
" " ....	"	"	....	76	Pinner	B., 14, 1081	
" " ....	"	"	....	76.5	Friedrich	B., 15, 218	42, 945
" "	"	"	203 c.	76.5	Geuther	J. p. [2], 3, 431	vii., 399; 24, 816
" "	$\text{CMe}:\text{C.CO.OH}$	"	....	94.6	Friedrich	A., 219, 322	44, 968
" " ....	....	"	260-280 d.	189	Demarçay	B. S. [2], 33, 516	38, 626
Succinic anhydride	$\text{CO.CH}_2.\text{CH}_2.\text{CO.O}$	$\text{C}_4\text{H}_4\text{O}_3$	....	118	Anschütz	B., 10, 1884	34, 136
" " ....	"	"	....	119	"	B., 10, 326	
" "	"	"	250	119.6	Kraut	A., 137, 254	v., 462
" " ....	"	"	....	120	Urech	G. J. C., 1880	
" " ....	....	"	....	160	Goldschmidt	M. C., 3, 136	42, 602
Oxytetrolic acid ....	....	"	....	s. w. m. a. 300	Duisberg	B., 15, 1384	
Fumaric acid ....	....	$\text{C}_4\text{H}_4\text{O}_4$	....	s. w. m. 200	....	A.	
Maleic acid ....	....	"	abt. 160	abt. 130	Büchner	A., 49, 57	iii., 784
Formyl tricarboxylic acid	$\text{CH}(\text{COOH})_3$	$\text{C}_4\text{H}_4\text{O}_6$	....	(129 ?)	Conrad	B., 12, 752, 1237	36, 707
Trioxymaleic acid	$\text{COOH.C}(\text{OH})_2.\text{CO.CO.OH}$	$\text{C}_4\text{H}_4\text{O}_7$	....	110	Tanatar	B., 13, 1384	38, 875
Methyl propargyl oxide	$\text{CH}_3.\text{O.C}_3\text{H}_3$	$\text{C}_4\text{H}_6\text{O}$	61-62	....	Henry	B., 5, 274; B., 5, 455	vii., 1008; 25, 687
Dihydrofurfurane ....	....	"	67	....	Henniger	C. R., 98, 149	46, 897
α -Crotonic aldehyde	$\text{CH}_3.\text{CH}:\text{CH.CHO}$	"	103-104	....	Newbury	C. R., 92, 196	40, 406
α - " "	"	"	102-106	....	Perkin	43, 89	
α - " "	"	"	104-105	Liquid	Kekulé	A., 162, 92, 309	25, 616
α - " "	"	"	105	....	Newbury	A. C. J., 5, 112	46, 295
Allylic formate	$\text{CH}_2:\text{CH.CH}_2.\text{CHO}$	"	103-105	Liquid	Kekulé	Z. C. [2], 5, 572	vi., 513
	$\text{H.COO}(\text{CH}_2.\text{CH}:\text{CH}_2)$	$\text{C}_4\text{H}_6\text{O}_2$	82-83	Liquid	Tollens, Weber and Kempf	Z. C. [1866], 518; J., 21, 450	vi., 621

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Erythrol anhydride	$\text{O} \cdot \text{CH}_2 \cdot \text{CH} \cdot \text{CH} \cdot \text{CH}_2 \cdot \text{O}$	$\text{C}_4\text{H}_6\text{O}_2$	138	Liquid	Przybytek	B., 17, 1092	46, 979
Butyrolactone	$\text{CH}_2 \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{CO} \cdot \text{O}$	"	201-203	....	Saytzeff	A., 171, 266	27, 570
"	"	"	201-203	-18	Fittig	A., 208, 111	42, 33
"	"	"	203 (753°8)	....	"	M. C., 3, 702	"
"	"	"	206 c.	....	Saytzeff	J. p. [2], 25, 64	42, 497
Trimethylene carboxylic acid	$\text{CH}_2 \cdot \text{CH}_2 \cdot \text{CH} \cdot \text{COOH}$	"	188-190	Liquid	Perkin	B., 17, 54	46, 832
β -Crotonic acid (quartenylic or isocrotonic acid)	$\text{CH}_2 : \text{CH} \cdot \text{CH}_2 \cdot \text{COOH}$	"	171·9 c.	l. -15	Geuther	J. Z., 6; J. F. P. [2], 3, 442; J. p. [2], 3, 431	24, 814; vii., 399; vi., 509
" " "	"	"	172	l. -15	Stacewicz	Z. C. [2], 5, 321	vi., 509
" " "	"	"	170-173	....	Hemilian	G. J. C., 1874	"
" " "	"	"	172	....	Krämer & Grodsky	B., 11, 1359	"
" " "	"	"	170	....	Hell & Müllhäuser	B., 13, 480	"
Methacrylic acid	$\text{CH}_2 : \text{CMe} \cdot \text{COOH}$	"	....	l. 0	Frankland & Duppa	18, 133	vi., 510, 825
" "	"	"	160·5	....	Kopp	G. J. C., 1879	"
" " ....	"	"	....	l. 10	Balbiano	G. I., 8, 371	36, 616
" " ....	"	"	....	16	Brühl	A., 200, 139	38, 296
" "	"	"	160·5	16 c.	Prehn	B., 8, 20	28, 632
" "	"	"	160·5	16	Fittig	A., 187, 42	32, 736
" "	"	"	180-181	18-19	Fittig and Roeder	B., 16, 2592	46, 295
α -Crotonic acid	$\text{CH}_3 \cdot \text{CH} : \text{CH} \cdot \text{COOH}$	"	....	70	Perkin	43, 89	"
" " ....	"	"	....	70·5-71·5	Balbiano	G. I., 8, 90	34, 658
" " ....	"	"	....	71	Lagermarck and Eltekoff	B., 10, 639	32, 583
" " ....	"	"	....	71-72	Rinne and Tollens	Z. C. [2], 7, 251	vii., 49; 25, 1021
" "	"	"	180-181	71-72	Kekulé	B., 3, 606	vii., 396
" "	"	"	182; 184·7 c.	71-72	"	A., 162, 112, 315	25, 618
" "	"	"	189 c.	71-72	"	B., 3, 606	vii., 396
" "	"	"	182	72	"	B., 3, 609	"
" " ....	"	"	....	72	Perkin	43, 89	45, 536
" "	"	"	187·4 c.	71·5	Geuther	J. p. [2], 3, 431	24, 815
" " ....	"	"	....	72	Will and Körner	A., 105, 12	vii., 396
" "	"	"	183·8; 187 c.	72	Bulk	A., 139, 62	vi., 510; vii., 396
" "	"	"	181-182 c.	71-72	Wislicenus	A., 149, 214	vii., 396
" " ....	"	"	....	72	Sarnow	B., 5, 468	25, 689
" " ....	"	"	....	72	Hemilian	B., 7, 297	27, 682
" " ....	"	"	....	72	Hell and Lauber	B., 7, 560	27, 887
" " ....	"	"	....	72	Brühl	B., 14, 2797	"
Methylic acrylate	$\text{CH}_2 : \text{CH} \cdot \text{COOMe}$	$\text{C}_4\text{H}_6\text{O}_2$	80-85	....	"	A., 167, 247	"
" "	"	"	80·3	....	Weger	A., 221, 61	46, 11
" "	"	$(\text{C}_4\text{H}_6\text{O}_2)_n$	190 (100)	Liquid	Kahlbaum	B., 13, 2348	40, 250
Acetic anhydride	$(\text{CH}_3 \cdot \text{CO})_2\text{O}$	$\text{C}_4\text{H}_6\text{O}_3$	130-135	....	Thorpe	37, 187	"
" "	"	"	137-138	....	Cahours	G. J. C., 1873	"
" "	"	"	136-138	....	Gall and Etard	C. R., 82, 457	29, 899
" "	"	"	137	....	Boughton	J., 18, 300	"
" "	"	"	137	....	Gal	C. R., 56, 360	vi., 23
" "	"	"	137·8 (757)	....	Kopp	A., 96	"
" "	"	"	137·5 (750)	Liquid	Gerhardt	J., 5, 451	i., 20
Methylic pyrrolacetate (pyruvate)	$\text{CH}_3 \cdot \text{CO} \cdot \text{COOMe}$	"	134-137	....	Oppenheim	B., 5, 1051	28, 377; vii., 1034
Propionyl formic acid	$\text{CH}_3 \cdot \text{CH}_2 \cdot \text{CO} \cdot \text{COOH}$	"	74-78 (25)	l. -15	Claisen and Moritz	B., 13, 2121	37, 694; 40, 154
Acetyl acetic acid	$\text{CH}_3 \cdot \text{CO} \cdot \text{CH}_2 \cdot \text{COOH}$	"	d. b. 100	Liquid	Ceresole	B., 15, 1327, 1873	"
Oxypropylene carboxylic acid	$\text{O} \cdot \text{CHMe} \cdot \text{CH} \cdot \text{COOH}$	"	....	84	Melikoff	B., 16, 1268	44, 969
Hydroxytetrollic acid ....	"	"	....	111	Demarçay	B. S. [2], 33, 575	40, 256
Epicyanhydrin carboxylic acid	$\text{O} \cdot \text{CH}_2 : \text{CH} \cdot \text{CH}_2 \cdot \text{COOH}$	"	....	225	Pazschke	J. p. [2], 1, 100	vii., 466
Dimethylic oxalate	$\text{COOMe} \cdot \text{COOMe}$	$\text{C}_4\text{H}_6\text{O}_4$	161	51	Dumas and Peligot	A. C. [2], 58, 44	iv., 272

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dimethylic oxalate	COOMe.COOMe	C ₄ H ₆ O ₄	163.5	....	Kopp	A., 32, 49; 64, 313	
" "	"	"	164.2 (760)	50-51	Regnault	M. A. S., 26, 658	
" "	"	"	163.5	....	Delffs	G. J. C., 1854	
" "	"	"	163.3	....	Weger	A., 221, 61	46, 11
Ethylic oxalate	COOH.COEt	"	117 (15)	Liquid	Anschütz	B., 16, 2413	46, 296
Ethylene glycol diformin	CH ₂ (O.CHO).CH ₂ (O.CHO)	"	174	Liquid	Henninger	B., 7, 263; B. S., 22, 104	
Isosuccinic acid	CH ₃ .CH(COOH) ₂	"	....	130	Wichelhaus	Z. C. [2], 3, 247	vi., 1041
" " ....	"	"	....	130	Züblin	B., 12, 1112	
Succinic acid	COOH.CH ₂ .CH ₂ .COOH	"	....	170-180	Wichelhaus	Z. C. [2], 3, 247	vi., 1041
" "	"	"	235 d.	180	....	....	v., 455
" " ....	"	"	....	180	Bischoff	B., 15, 1110	42, 1188
" " ....	"	"	....	180	Harrow	33, 435	
" " ....	"	"	....	180	Brunner and Branderburg	B., 9, 983	30, 400
" " ....	"	"	....	180	Baeyer	B., 10, 1286	34, 4
" " ....	"	"	....	abt. 180	Coppola	G. I., 10, 9	38, 382
" " ....	"	"	....	180	Purdie	39, 351	
" " ....	"	"	....	180	Schmidt	G. J. C., 1860	
" "	"	"	235	180.5	Carius	G. J. C., 1867	
" " ....	"	"	....	180	Urech	G. J. C., 1880	
Glycollic anhydride	(HO.CH ₂ .CO) ₂ O	C ₄ H ₆ O ₅	....	128-130	Fahlberg	A., 127, 154; J. p. [2], 7, 336	vii., 570; 27, 143
Malic acid	COOH.CH(OH).CH ₂ .COOH	"	....	83	Pelouze	....	iii., 789
" " ....	"	"	....	100	Schröder	G. J. C., 1879	
" " ....	"	"	....	100	Pasteur	A. C. [3], 34, 146	iii., 789
" " ....	"	"	....	100	Tanatar	B., 13, 159	38, 375
" " (inactive)....	"	"	....	105-108	Pictet	B., 14, 2648	42, 389
" " " ....	"	"	....	112-115	....	A., 82, 330; 117, 126	
" " " ....	"	"	....	133	....	A., 130, 24; 174, 368	
" " " ....	"	"	....	130-135	Bischoff	A., 214, 44	44, 45
" " " ....	"	"	....	132-136	Lloyd	A., 192, 80	34, 785
Isomalic acid	COOH.CMe(OH).COOH	"	....	149	Kammerer	A., 139, 257	vi., 759
" "	"	"	d. 160	begins 100	Schmöger	J. p. [2], 14, 77	30, 507
" " ....	"	"	....	140	"	J. p. [2], 24, 38	42, 40
Diglycollic acid	COOH.CH ₂ .O.CH ₂ .COOH	"	250-270	148	Wurtz	....	ii., 913
" "	"	"	250 p. d.	148	Heintz	A., 128, 129	vi., 641
Methyltartronic acid	CH ₂ (OH).CH(COOH) ₂ or CH ₃ .C(OH)(COOH) ₂	"	....	178 d.	Böttlinger	B., 14, 148	40, 254
(?) acid ....	....	"	....	155-168	....	A., 216, 276	
Tartaric acid (dextrorotary)	COOH(CH.OH) ₂ .COOH	C ₄ H ₆ O ₆	....	135	Schiff	G. J. C., 1860	
Mesotartaric acid ....	"	"	....	140	Dessaigues	B. S., 1, 34	v., 688
Tartaric acid ....	"	"	....	170-180	....	....	v., 675
Racemic acid ....	"	"	....	198	Stædel	B., 11, 1752	36, 223
" " ....	"	"	....	201	"	"	"
Ethylvinyl oxide	CH ₂ :CH.O.Et	C ₄ H ₈ O	35.5	Liquid	Wislicenus	A., 192, 106	34, 776
Methylallyl oxide	CH ₃ .O.CH ₂ .CH:CH ₂	"	46	Liquid	Henry	B., 5, 455	vii., 50; 25, 687
Isobutylene oxide	Me ₂ C.CH ₂ .O	"	51-52	Liquid	Eltekoff	J. R. [1884], 355	44, 567
Butylene oxide	MeCH.CHMe.O	"	56-57	Liquid	"	B., 16, 398	"
Crotyl alcohol ....	....	"	117-120	....	....	M. C., 1, 826	
Ethyl-vinyl alcohol ....	....	"	99 (738)	....	Lieben	B. S., 12, 282	32, 868
Methylethylketone	CH ₃ .CO.C ₂ H ₅	"	77-80	....	Saytzeff	Z. C. [2], 7, 104	vii., 11, 711
" "	"	"	75-77	....	Fittig	A., 110, 18	i., 31
" "	"	"	75-80	....	Linnemann	A., 162, 1	25, 474; vii., 219
" "	"	"	77.5-78	....	Freund	J., 13, 312	
" "	"	"	77-79	....	Grimm	A., 157, 258	24, 386
" "	"	"	79-82	....	Ceresole	B., 15, 1874	

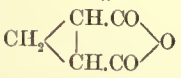
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylethylketone	$\text{CH}_3\text{CO.C}_2\text{H}_5$	$\text{C}_4\text{H}_8\text{O}$	79.5-81	....	Popoff	J., 20, 399	44, 990
"	"	"	80	....	Kanonikoff and Saytzeff	A., 175, 374	28, 627
"	"	"	80	....	Wagner	B. S. [2], 25, 396	30, 395
"	"	"	79-81	....	Demole	B., 11, 1710	36, 220
"	"	"	81	....	Frankland & Duppa	J., 18, 309	vi., 767
"	"	"	80-85	....	Krämer & Grodzki	B., 9, 1920	32, 291
Isobutyric aldehyde	CHMe_2CHO	"	60-62 c.	Liquid	Linnemann & Zotta	A., 162, 36	25, 475; vii., 228
" "	"	"	62	....	Pierre and Puchot	A. C. [4], 22, 332; Z. C., 13, 255	
" "	"	"	61	....	Pfeiffer	B. 5, 699	vii., 228; 25, 1001
" "	"	"	60-64	....	Lossen	A., 214, 154	
" "	"	"	61-62	....	Barbaglia	B., 5, 1052	26, 379
" "	"	"	60-62	....	Perkin	....	43, 91
" "	"	"	63-64 c.	....	"	....	45, 476
" "	"	"	60-62	....	Rénard	A. C. [6], 1, 223	46, 844
" "	"	"	63 (741)	....	Fossek	M. C. [4], 660	46, 37
" "	"	"	62	....	Urech	B., 12, 1744	
" "	"	"	65-70	....	Tilden	B., 13, 1604	
" "	"	$(\text{C}_4\text{H}_8\text{O})_n$	145-155	Liquid	Pfeiffer	B., 5, 700	vii., 228; 25, 1001
Butyric aldehyde	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$	$\text{C}_4\text{H}_8\text{O}$	68-75	Liquid	Guckelberger	A., 64, 52	i., 690
" "	"	"	73-74	....	Michaelson	A., 133, 184	vi., 380
" "	"	"	70-78	....	"	A., 133, 182	"
" "	"	"	73-77	....	Pierre and Puchot	C. R., 70, 434	"
" "	"	"	abt. 75	....	Lieben and Rossi	A., 158, 148	24, 517; vii., 214
Butyral ....	....	"	95 (75 ?)	Liquid	Chancel	A. C. [3], 12, 416	i., 689
Isopropyl formate	H.CO.O	$\text{C}_4\text{H}_8\text{O}_2$	65-67 (44.7)	....	Silva	B. S. [2], 17, 97	vii., 1016; 26, 367
Propyl formate	H.CO.O.Pr^n	"	82	....	Chancel	C. R., 68	vi., 964
" "	"	"	81	....	Schumann	G. J. C., 1881	
" "	"	"	82.5-83	....	Pierre and Puchot	C. R., 66, 302; A. C. [4], 22, 289	vi., 964
" "	"	"	82.7	....	" "	C. R., 75, 1594; Z. C., 12, 660	26, 260
" "	"	"	81	....	Elsasser	A., 218, 302	44, 967
" "	"	"	80.5-81.5 c.	....	Perkin	....	45, 491
" "	"	"	85.1; 267.4 c. t.	....	Pawlewski	B., 15, 2463	44, 276
Ethyl acetate	CH_3COOEt	"	72-74	....	Zeidler	A., 187, 30	32, 437
" "	"	"	73	....	Pierre and Puchot	A. C. [4], 22, 261; C. R., 75, 1594	26, 260
" "	"	"	74.3 (760)	....	Kopp	P. A., 72	i., 21
" "	"	"	76	Liquid	Perkin and Hodgkinson	37, 487	
" "	"	"	77	....	Linnemann	A., 160, 209; 162, 39	vii., 203
" "	"	"	71	....	Thenard	P. A., 72	
" "	"	"	74	....	Dumas and Boullay	P. A., 12, 430	
" "	"	"	74.14	....	Pierre	C. R., 27, 213; P. A., 76, 458	
" "	"	"	74.6	....	Andrews	J., 1, 89	
" "	"	"	77.1	....	Elsasser	A., 218, 302	44, 967
" "	"	"	77.5	....	Becker	J., 5, 563	
" "	"	"	77.5 c.	....	Perkin	....	45, 492
" "	"	"	83	....	Gössmann	J., 5, 563	
" "	"	"	78-78.5	....	Marsson	J., 6, 501	
" "	"	"	74 (756)	....	Delffs	J., 7, 26	
" "	"	"	74	....	Leblanc	A. C. [3], 10, 198	
" "	"	"	77.1 (760)	....	Schumann	W., 12	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl acetate	CH ₃ .COOEt	C ₄ H ₈ O ₂	74.3	....	Schiff	G. J. C., 1881	
"	"	"	75; 256.5 c. t.	....	Pawlewski	B., 15, 2463	44, 276
"	"	"	239.8 c. t.	....	Sajotschewsky	W. B. [1879], 741	45, 138
Methyl propionate	CH ₃ .CH ₂ .COOMe	"	77-81	....	....	M. C., 2, 681	
"	"	"	79.5	....	Kahlbaum	B., 12, 344	36, 521
"	"	"	79.9	....	Schumann	....	44, 990
"	"	"	79.9	....	Elsasser	A., 218, 302	44, 967
"	"	"	80; 262.7 c. t.	....	Pawlewski	B., 15, 2463	44, 276
Isobutyric acid	CHMe ₂ .COOH	"	153-154 c.; 153-153.5 c.	....	Perkin	....	45, 487
"	"	"	68 (45)	....	Moritz	....	39, 14
"	"	"	149-151 u. c. (716)	....	Grünzweig	A., 162, 193	vii., 226; 26, 374
"	"	"	151-153	....	Balbiano	G. I., 8, 371	36, 615
"	"	"	153.2	....	Brühl	A., 200, 180	38, 296
"	"	"	153.5-154.5	....	Markownikoff	A., 138, 361	vi., 378
"	"	"	150-158	....	Hodgkinson	....	33, 500
"	"	"	152-157	....	"	....	33, 498
"	"	"	150-160	....	"	....	33, 501
"	"	"	153-155	....	Rénard	A. C. [6], 1, 223	46, 844
"	"	"	154.11 c.	....	Linnemann & Zotta	A., 162, 9	vii., 226; 25, 475
"	"	"	154-155	....	Hell & Waldbauer	B., 10, 448	32, 313
"	"	"	155.5 (760)	....	Pierre and Puchot	A. C. [4], 28, 366; C. R., 75, 1006	26, 55, 616; vii., 226
"	"	"	156	....	Delffs	A., 92, 277	vii., 226
"	"	"	157 (760)	b. 20	Kopp	P. A., 72	i., 692
"	"	"	155-160	....	Kachler	A., 159, 281	24, 1049
"	"	"	155-160	....	Loir	A. C. [5], 18, 125	36, 31
"	"	"	....	60.5	Gottlieb	J. p. [2], 12, 1	29, 562
Butyric acid	CH ₃ .CH ₂ .CH ₂ .COOH	"	157-160 (716)	....	Grünzweig	A., 162, 203	26, 373; vii., 226
"	"	"	....	Liquid	Reichardt	A. P. [3], 10, 339	32, 518
"	"	"	161-163 c.	....	Perkin	....	45, 483
"	"	"	100 (82-84)	....	Moritz	....	39, 17
"	"	"	162.32	s. f. m.	Linnemann & Zotta	A., 161, 175	25, 402; vii., 203, 225
"	"	"	162.32 c.	0	Linnemann	A., 160, 228	
"	"	"	162.63	....	"	A. C. [4], 27, 268	
"	"	"	163	....	Pierre	C. R., 27, 213; P. A., 76, 458	
"	"	"	162	....	Landolt	P. A., 117, 353	
"	"	"	163 (742)	....	Rossi	G. I., 1, 230	24, 1032
"	"	"	163.2 (749)	....	Liebin and Rossi	A., 158, 137	24, 516; vii., 214
"	"	"	162-164	....	Cahours & Demarcay	C. R., 90, 156	36, 540
"	"	"	156-163	....	Lossen	A., 214, 154	
"	"	"	163-164	....	Vincent	B. S. [2], 31, 156	36, 612
"	"	"	164	....	Pelouze and Gelis	P. A., 59, 625	vi., 378
"	"	"	161.5-162.5	....	Brühl	A., 203, 19	
"	"	"	abt. 164	....	Pierre and Puchot	A. C. [4], 28, 363	26, 616
"	"	"	164	....	Person	J., 1, 91	
"	"	"	165	-12	Bulk	A., 139, 66	
"	"	"	165	....	Cahours & Demarcay	C. R., 89, 331	36, 1036
"	"	"	....	0	Baeyer	B., 10, 1286	34, 4
"	"	"	204.5-206.5	....	Lossen	A., 214, 154	
"	For tension table	"	....	....	....	See Part III.	
Acetaldehyde	....	"	110	....	Wurtz and Bauer	R. C. p. [1860], 244	ii., 575
"	....	"	110	Liquid	Bauer	R. C. p. [1868], 294	vi., 76
Aldol	CH ₃ .CH(OH).CH ₂ .CHO	"	90-105 (20)	Viscid 0	Wurtz	C. R., 74, 1165	vii., 38
"	"	"	90 (20); 135 (760) d.	"	C. R., 74, 1361; 92, 1438	25, 808
"	(C ₄ H ₈ O ₂) _n	170 (15); 280 (760)	Liquid	"	C. R., 97, 1525	46, 579
Paraldol	See C ₈ H ₁₆ O ₄						

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Metaldehyde	CHMe:O ₂ :CHMe	C ₄ H ₈ O ₂	Sublimes	Infusible	Kekulé and Zincké	A., 162, 141	vii., 32
Dioxethylene	C ₂ H ₄ :O ₂ :C ₂ H ₄	"	102	Cryst. 9	Wurtz	J., 15, 423	ii., 580
Ethylene ethylidene oxide	C ₂ H ₄ O.C ₂ H ₄ O	"	82·5	Liquid	"	A., 120, 328	"
Butinglycol	C ₄ H ₆ (OH) ₂	"	199–200	Liquid	Henniger	B., 5, 1059 ; 6, 71	"
Methylic ethylic carbonate	CO(OMe)(OEt)	C ₄ H ₈ O ₃	104 (730)	....	Schreiner	J. p. [2], 22, 354	40, 88
" " "	"	"	109·2 c.	....	Röse	A., 205, 245	40, 252
Ethylic methylic "	CO(OEt)(OMe)	"	115·5 (730·1)	....	Schreiner	J. p. [2], 22, 355	40, 88
Methylic methylglycollate	CH ₂ (OMe).COOMe	"	127	....	Fölsing	B. 17, 486	46, 897
" " "	"	"	132·5	....	Schreiner	B., 12, 179	36, 522
" " "	"	"	134·5	....	"	J. p. [2], 22, 353	40, 88
Ethylic glycollate	CH ₂ (OH).COOEt	"	150	....	Fahlberg	J. p. [2], 7, 340	vii., 570; 27, 143
" " "	"	"	160	....	Schreiner	B., 12, 179 ; A., 197, 12	36, 522
Ethyl glycollic acid	CH ₂ ·(OEt).COOH	"	199	....	"	"	"
" " " "	"	"	abt. 200	Liquid	Heintz	P. A., 109, 489	ii., 916
" " " "	"	"	206–207	....	Henry	B. 2, 276	"
Methylic lactate	CH ₃ .CH(OH).COOMe	"	144·8	....	Schreiner	B., 12, 179 ; A., 197, 12	36, 522
a-Hydroxybutyric acid	CH ₃ .CH ₂ .CH(OH).COOH	"	....	42–43	Claisen and Moritz	B., 13, 2121	37, 695
" " " "	"	"	225 d.	43–44	Markownikoff	A., 153, 242	vii., 884
" " " " ....	"	"	....	Easily	Kaschirski	C. C. [1881], 278	42, 37
" " " "	"	"	255–260 d.	s. b. 60–70	Richter	Tabellen	"
β- " " "	CH ₃ .CH(OH).CH ₂ .COOH	"	....	Liquid	....	A., 149, 205; 153, 237	"
γ- " " "	CH ₂ OH.CH ₂ .CH ₂ .COOH	"	....	Liquid	Saytzeff	J. p. [2], 25, 61	42, 497
α-Hydroxyisobutyric acid	CMe ₂ (OH).COOH	"	....	65	Haitinger	M. C., 2, 288	40, 1115
" " " " ....	"	"	....	75·7	"	"	"
" " " "	"	"	212	75·7	Frankland & Duppa	P. R. S.	iv., 275
" " " " ....	"	"	....	78	Tiemann and Friedländer	B., 14, 1973	42, 56
" " " " ....	"	"	....	76–77	Pinner	B., 15, 591	42, 942
" " " " ....	"	"	....	78–79	Meyer	B., 11, 1789	"
" " " " ....	"	"	....	79	Willgerodt	B., 15, 2309	"
" " " "	"	"	sb. 74	79	Markownikoff	A., 146, 339	vi., 29
" " " "	"	"	sb. 50	79	"	A., 153, 228	vii., 884
" " " " ....	"	"	....	79·3 c.	Balbiano	G. I., 8, 371	36, 615
" " " "	"	"	sb. b. 100	80	Markownikoff	A., 138, 361	vi., 379
" " " " ....	"	"	....	80	Hell & Waldbauer	B., 10, 448	32, 313
" " " " ....	"	"	....	80	Kaschirski	C. C. [1881], 278	42, 37
Methoxyacetoxymethane	CH ₂ (OMe)(OAc)	"	117–118	....	Friedel	C. R., 84, 247; B., 10, 492	32, 424
Ethylene monacetate	HO.CH ₂ .CH ₂ .OAc	"	181–182	....	Atkinson	P.M. [4], 16, 433; A., 109, 232	ii., 566
Dambonite ....	....	"	sb. 200–210	190	Girard	C. R., 77, 820	vi., 541
" " " " ....	....	"	....	205	"	C. R., 77, 995	27, 170
Glycerin monoformin ....	....	C ₄ H ₈ O ₄	165 i. v.	....	....	B. S., 11, 395	"
Diethyl oxide....	Et ₂ O	C ₄ H ₁₀ O	20 (433)	....	Brown	....	39, 209
" " " " ....	"	"	....	l.—50	Thenard	B., 10, 830	32, 425
" " " " ....	"	"	....	l.—99	Mitschell	"	"
" " " " ....	"	"	....	l.—99	Franchimont	"	"
" " " "	"	"	34·5	....	Ramsay	35, 469	"
" " " "	"	"	34·5	....	Regnault	M. A. S., 26, 658	"
" " " "	"	"	34	....	Dumas and Boullay	A. C. [2], 36, 294	ii., 537
" " " " ....	"	"	....	s.—31	Fourcroy and Vanquelin	....	32, 425
" " " "	"	"	34·8 (760)	....	Main	G. J. C., 1877	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diethyl oxide....	Et ₂ O	C ₄ H ₁₀ O	35.5	....	Pierre	C. R., 27, 213 ; P. A., 76, 458	
" "	"	"	34.9	....	Andrews	J., 1, 89	
" "	"	"	35.6	....	Person	J., 1, 91	
" "	"	"	35	....	Delffs	J., 7, 26	
" "	"	"	34.6 c.	....	Perkin	....	45, 474
" " ....	"	"	....	-117.4	Olzewski	M. C., 5, 127	46, 816
" "	"	"	190 c. t.	....	Sajotschewsky	W. B. [1879], 741	45, 138
" "	"	"	195.5 c. t.	....	Ramsay	(?)	"
" " (hydrate)	Et ₂ O + 2H ₂ O	"	....	s. -3.5	Tanret	C. R., 86, 765	34, 565
Methylpropyl oxide	CH ₃ .CH ₂ .CH ₂ .O.CH ₃	"	49-52	....	Chancel	A., 151, 305	vi., 964
Butyl alcohol....	CH ₃ .CH ₂ .CH ₂ .CH ₂ .OH	"	122	....	Wislicenus	A., 219, 307	44, 967
" "	"	"	116-117	....	Fitz	B., 9, 1350	
" "	"	"	117.5-120 ; 56 (50)	....	Lieben and Ziesel	W. A., 82, 960	40, 710
" "	"	"	116.96 c.	l. -22	Linnemann	A., 161, 190	25, 396 ; vii., 215
" "	"	"	116.88	....	"	"	"
" "	"	"	116.88	....	"	A., 162, 39	vii., 203
" "	"	"	114-116	viscid -17	"	A., 161, 178	25, 395
" "	"	"	110	Liquid	Wurtz	C. R., 35, 210	v., 733
" "	"	"	109	....	"	A., 93, 107	
" "	"	"	115-117.2	....	Lossen	A., 214, 154	
" "	"	"	116	Liquid	Pagliani	G. I., 8, 1	34, 654
" "	"	"	115-116 (758)	....	Saytzeff	Z. C., 13, 108	
" "	"	"	116 (740)	....	Lieben and Rossi	A., 158, 137	24, 519
" "	"	"	113-117	....	" "	"	vii., 215
" "	"	"	115	....	" "	C. R., 68, 1561	vi., 372
Isobutyl alcohol	CHMe ₂ .CH ₂ .OH	"	108.5	....	Chapman & Smith	22, 153	vi., 373
" "	"	"	109	....	Lieben and Rossi	A., 158, 137	24, 523
" "	"	"	109	....	Rabateau	C. R., 87, 501	36, 36
" "	"	"	109	....	Regnault & Hardy	J. P. [4], 30, 405	38, 456
" "	"	"	108-109	....	Gladstone & Tribe	39, 6	
" "	"	"	107-109	....	Lossen	A., 214, 154	
" "	"	"	108-109	....	Linnemann	A. C. [4], 27, 268	
" " (inactive)	"	"	108.39	....	"	A., 140, 195	vii., 217
" "	"	"	107	....	"	A., 162, 12	25, 476
" "	"	"	108-109	....	Cahours	C. R., 77, 1403	27, 348
" "	"	"	108-109	....	Etard	C. R., 86, 488	34, 393
" "	"	"	108	....	Hofmann & Reimer	B., 3, 756	vii., 222
" "	"	"	108	....	Reimer	Z. C. [2], 7, 26	24, 121
" "	"	"	108	....	Schorlemmer	....	27, 1030
" "	"	(?)	108	....	Münch	A., 180, 327	30, 68
" "	"	"	107-109	....	Demarçay	C. R., 77, 360	26, 1227
" " different samples	"	"	107.5	....	Pierre and Puchot	J., 21, 434	
" " " "	"	"	107.5	....	" "	"
" "	"	"	106-109	....	Kræmer	B., 7, 252	
" "	"	"	108	....	Schmidt	B., 7, 1362	
" "	"	"	107	....	Bertoni and Truffi	G. I., 14, 23	46, 1110
" "	"	"	107.6-108.3c.	....	Perkin	....	45, 468
" "	"	"	105-110	....	Linnemann & Zotta	A., 162, 3	25, 475 ; vii., 217
" "	"	"	106-107	....	" "	A., 162, 7	25, 475
" "	"	"	105-110	....	Fittig	B., 10, 515	32, 429
" "	"	"	106.9	....	Rabateau	C. R., 87, 501	36, 36
" "	"	"	106-107	....	Grünzweig	A., 162, 193	26, 374
" "	"	"	103-105	....	Erlenmeyer & Hill	A., 160, 257	25, 242
Butyl	CH ₃ .CH ₂ .CH(OH).CH ₃	"	99	....	Lieben and Bauer	(?)	vi., 374
" "	"	"	99	....	Lieben and Rossi	A., 158, 137	24, 523
" "	"	"	99 (739)	....	Lieben	A., 150, 114	
" "	"	"	98-100	....	Kanonnikoff and Saytzeff	A., 175, 374	28, 626
" "	"	"	98.5-99	....	Nevolé	C. R., 85, 514	32, 868

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Butyl alcohol	$\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_3$	$\text{C}_4\text{H}_{10}\text{O}$	97-100	....	Saytzeff	Z. C., 6, 327; J. p. [2], 3, 88	vii., 219; 24, 526
"	"	"	96-99	....	Ressel	A., 175, 44	28, 554
"	"	"	96-99	....	Wagner	B. S. [2], 25, 396	30, 395
"	"	"	96-98	....	Schorlemmer	27, 1030	vii., 868
"	"	"	95-98	....	De Luynes	A., 128, 330; 132, 274; A. C. [4], 2, 424	v., 734; vi., 374
"	"	"	abt. 95	....	Wurtz	Z. C. [2], 5, 407	vi., 377
"	CMe_3OH	"	82-85	Solid	Freund	J. p. [2], 12, 25	29, 543
"	"	"	81-85	2	Linnemann	A., 162, 12	25, 477; vii., 222
"	"	"	82.94 c.	23-24	"	"	" "
"	"	"	80-85	4	"	"	25, 476
"	"	"	80.5-83	s. 16	"	"	25, 477
"	"	"	b. 82	15	"	"	25, 476
"	"	"	83 (760)	....	Pawlewski	B., 15, 3034	44, 565
"	"	"	83	....	Longuinine	B. S. [2], 36, 307	42, 356
"	"	"	81.5-82 c.	....	Perkin	....	45, 468
"	"	"	82.5-83 (745)	29	Brühl	A., 203, 17	vi., 374
"	"	"	82	Solid	Butlerow	A., 144, 1	vii., 221; 24, 1035; 26, 369
"	"	"	82.5 (750)	25-25.5	"	Z. C. [2], 7, 273; A., 162, 229	
"	"	"	82.5	25-25.5	Dobbin	37, 238	
"	"	"	82-82.5	25.5	"	"	
"	"	"	82	....	Lieben and Rossi	A., 158, 137	24, 523
"	hydrate	$\text{CMe}_3\text{OH} + \text{H}_2\text{O}$	80	....	Butlerow	Z. C., 14, 273	
Ethylidene dimethylate (dimethyl acetal)	$\text{CH}_3\text{CH}(\text{OMe})_2$	$\text{C}_4\text{H}_{10}\text{O}_2$	65	Liquid	Wurtz	A. C. [3], 48, 374	vi., 4
"	"	"	64.4	....	Alsberg	J. Z., 1, 154	
"	"	"	63.2-64.8 (760)	....	Krämer & Grodzki	B., 9, 1930	
"	"	"	63-64	....	Dancer	17, 222	iii., 1002
"	"	"	65	....	Bachmann	A., 218, 38	44, 727
"	"	"	64 c.	....	Perkin	....	45, 506
Ethylidene ethylate	$\text{CH}_3\text{CH}(\text{OH})(\text{OEt})$	"	88-90	....	Rénard	A. C. [5], 16, 289; C. R., 80, 105	38, 24; 28, 440
"	"	"	s. b. 50	....	Jacobsen	B., 4, 215	vii., 481
Ethylene ethylate	$\text{OEt.CH}_2\text{CH}_2\text{OH}$	"	abt. 130	Liquid	Wurtz	A., 108, 84	ii., 574
"	"	"	134 u. c. (721.5)	....	"	A. C. [3], 55, 430; B., 9, 745	
Isobutylene glycol	$\text{Me}_2\text{C}(\text{OH}).\text{CH}_2\text{OH}$	"	176-178	....	Nevolé	C. R., 83, 65, 146	30, 621
"	"	"	176-178	....	Eltekoff	J. R. [1882], 355	44, 567
"	"	"	178.5	....	Henninger	C. R., 95, 94	42, 1249
Butylene glycol	$\text{C}_4\text{H}_8(\text{OH})_2$	"	183-184	....	Wurtz	A. C. [3], 56, 412	v., 739
"	$\text{Me.CH}(\text{OH}).\text{CH}(\text{OH})\text{Me}$	"	183-187	....	Eltekoff	J. R. [1882], 355	44, 567
"	$\text{CH}_3\text{CH}_2\text{CH}(\text{OH}).\text{CH}_2\text{OH}$	"	192-193	....	Nevolé	C. R., 85, 514	32, 868
"	"	"	191-192 (747)	....	Grabowski and Saytzeff	A., 179, 332	"
"	$\text{CH}_3\text{CH}(\text{OH}).\text{CH}_2\text{CH}_2\text{OH}$	"	201-203	....	Wurtz	C. R., 76, 1165	26, 877; vii., 39
"	"	"	203.5-204	....	Kekulé	A., 162, 310; B., 5, 56	vii., 36, 225; 25, 397
"	"	"	207-208 (769)	....	Wurtz	C. R., 97, 473	46, 169
Trimethylic orthoformate	$\text{CH}(\text{COMe})_3$	$\text{C}_4\text{H}_{10}\text{O}_3$	101-102	....	Deutsch	B., 12, 117	38, 453
"	"	"	102	....	Pinner	B., 16, 1645	44, 1089
Butenyl glycerol	$\text{C}_4\text{H}_7(\text{OH})_3$	"	172-173 p. d. u. c. (27)	Liquid	(?)	M. C., 1, 833	
Diethylene glycol	$\text{CH}_2\text{OH}. \text{CH}_2\text{O}.\text{CH}_2\text{CH}_2\text{OH}$	"	abt. 245	Liquid	Lourenço	B. S., 1, 77	ii., 577
"	"	"	abt. 250	....	Wurtz	A. C. [3], 67, 279	
"	"	"	250	....	Demole	A., 177, 45	28, 1172

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Erythrite	$\text{CH}_2(\text{OH}).\text{CH}(\text{OH}).\text{CH}(\text{OH}).\text{CH}_2\text{OH}$	$\text{C}_4\text{H}_{10}\text{O}_4$	160	112	Lamy	A. C. [3], 35, 138	ii., 504
" ....	" "	"	....	120	Hesse	A., 117, 327	"
Xanthil ....	....	$\text{C}_4\text{H}_{20}\text{O}_3 (?)$	130	....	Conërbe	....	"
Pæonin ....	....	$\text{C}_5\text{H}_4\text{O}$	....	80	Kolbe and Schmitt	A., 119, 169	iv., 324; vi., 505
Polyfurfurol ....	....	$(\text{C}_5\text{H}_4\text{O})_n$	....	98	....	A., 134, 61	"
Furfurol	$\text{C}_4\text{H}_3\text{O}.\text{CHO}$	$\text{C}_5\text{H}_4\text{O}_2$	162	....	Ramsay	35, 469	"
"	"	"	162	....	Cahours	J., 1, 733	"
"	"	"	162	....	Hill	B., 10, 937	32, 747
"	"	"	162	....	"	A. C. J., 3, 33	42, 296
"	"	"	161.6	....	Fownes	P. T. [1845], 253	ii., 752
"	"	"	162.8-163.3	Liquid	Stenhouse	A., 156, 197	"
"	"	"	168	Liquid	"	P. M. [3], 18, 122, 37, 226	ii., 752
"	"	"	160-180	....	Völckel	J., 5, 652	"
Fucosol ....	....	"	171-172	....	....	A., 74, 284	"
Pyromeconic acid ....	....	$\text{C}_6\text{H}_4\text{O}_3$	sb. b. 100	120-125	....	....	iv., 761
" " ....	....	"	227-228	121.5	Ihlée	A., 188, 31	34, 34
" " ....	....	"	225	Crystalline	Ost	J. p. [2], 19, 181	36, 708
β -Pyromucic acid ....	....	"	....	129	Hirzel	G. J. C., 1866	"
β - " "	$\text{C}_4\text{H}_2(\text{OH})(\text{COOH})$	"	sb. b. 100	130	Boussingault	G. J. C., 1835	iv., 763
β- " " ....	....	"	....	130	Stenhouse	P. R. S., 20, 80; C. N., 24, 303	vii., 535, 1033; 25, 298
α- " " ....	....	"	....	133	"	"	"
α- " " ....	....	"	....	132.6-134.3 c.	Schwanert	A., 116, 257	vii., 535; 25, 298
Isopyromucic acid	$\text{C}_4\text{H}_3\text{O}.\text{COOH}$	"	....	abt. 82	Limpricht	A., 165, 298	vii., 1032; 26, 626
Citraconic anhydride	$\text{Me.C}:\text{CH.CO.O.CO}$	"	212 d.	....	Fittig	A., 187, 42	32, 736
" " ....	"	"	....	7	Anschütz	B., 14, 2788	42, 829
" "	"	"	122 (43)	....	"	B., 13, 1542	"
" "	"	"	213-214 c.	....	....	A., 188, 64	"
" "	"	"	212	....	Markownikoff	B., 13, 1845	40, 155
" "	"	"	210-215	Liquid	Morris	37, 12	"
Itaconic " "	$\text{CH}_2:\text{C.CO.O.CO.CH}_2$	"	139-140 (30)	68	Anschütz and Petri	B., 13, 1540	40, 35
" " ....	"	"	....	68	Anschütz	B., 13, 1542	"
" "	"	"	210	68.5	Markownikoff	B., 13, 1845	40, 155
Trimethylene dicarboxylic anhydride		"	....	57	Conrad & Guthzeit	B., 17, 1185	46, 992
Aconic acid	$\text{CO.O.CH}:\text{C.CH}_2.\text{COOH}$	$\text{C}_5\text{H}_4\text{O}_4$	....	154	Meilly	B., 6, 242	vii., 22; 26, 875
" " ....	"	"	....	163	Beer	A., 216, 91	44, 458
" " ....	"	"	....	164	Meilly	A., 171, 153	27, 788
Sylvane	$\text{C}_4\text{H}_3\text{O}.\text{Me}$	$\text{C}_5\text{H}_6\text{O}$	63-63.5	Liquid	Atterberg	B., 13, 879	38, 663
Ethyl propargylate	$\text{CH}:\text{C.CO.OEt}$	$\text{C}_5\text{H}_6\text{O}_2$	117-119	....	Bandrowski	B., 15, 2701	44, 314
Propargylic acetate	$\text{CH}:\text{C.CH}_2.\text{OAc}$	"	121-123	....	Brühl	A., 200, 139	38, 296
" "	"	"	124-125	....	Henry	B., 6, 729	vii., 1008; 26, 1123
Furfuryl alcohol ....	....	"	abt. 170-180	Liquid	Limpricht	A., 165, 253	26, 626
Oxycannabin ....	....	"	....	175-176	Bolas and Francis	22, 417	vi., 391
(?) acid ....	....	$(\text{C}_5\text{H}_6\text{O}_2)_n$	....	206	Roser	B., 15, 293	"
Pyrotartaric anhydride	$\text{Me.CH.CO.O.CO.CH}_2$	$\text{C}_5\text{H}_6\text{O}_3$	230	....	....	A., 66, 77	"
" "	"	"	244.9	....	Lebedeef	B. S. [2], 25, 395	30, 287
" "	"	"	244.9 c.	Liquid	Markownikoff	A., 182, 329	31, 61
" " ....	....	"	a. 300	Liquid	....	....	iv., 774
" "	$\text{CH}_2.\text{CH}_2.\text{CO.O.CO.CH}_2$	"	282-285 p. d.	56-57	Markownikoff	B. S. [2], 28, 349	34, 30
Paraconic acid	$\text{CO.O.C}_3\text{H}_5.\text{COOH}$	$\text{C}_5\text{H}_6\text{O}_4$	....	57	Beer	A., 216, 85	44, 458
" " ....	"	"	....	abt. 70	Swarts	J. [1867], 474	vi., 760

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Citraconic acid	Me.C(COOH):CH.COOH	C ₆ H ₆ O ₄	....	80	Gottlieb	G. J. C., 1852	i., 992
" " ....	"	"	....	80	Morawski	J. p. [2], 11, 430	28, 1253
" " ....	"	"	....	88-89	Barbaglia	B., 7, 466	
Crotaconic acid	C ₃ H ₄ (COOH) ₂	"	....	abt. 119	Claus	B., 10, 822	32, 593
" " ....	"	"	....	119	"	A., 191, 74	34, 856
Glutonic acid	COOH.CH ₂ .CH:CH.COOH	"	....	133	Conrad & Guthzeit	B., 15, 2843	44, 312
(?) "	CH ₂ :C ₂ H ₂ (COOH) ₂	"	....	139	Fittig and Roeder	B., 16, 372	44, 730
Trimethylene dicarboxylic acid	CH ₂ .CH ₂ .C(COOH) ₂	"	....	140-141	Perkin	B., 17, 54	46, 832
" "	CH ₂ .CH(COOH).CH(COOH)	"	....	137	Conrad & Guthzeit	B., 17, 1185	46, 992
Lipic acid ....	....	"	....	Not b. 140-145	Laurent	A. C., 66, 169	iii., 704
" " ....	....	"	....	150	Wirz	A., 105, 257	"
Itaconic acid ....	....	"	....	161	....	....	iii., 435
" " ....	....	"	....	161-162	Anschütz	B., 13, 1542	
" " ....	....	"	....	162-163	Markownikoff	B., 13, 1845	
" " ....	....	"	....	160-161	Barbaglia	B., 7, 466	
" " ....	....	"	....	160	Claus and Lischke	B., 14, 1092	
" " ....	....	"	....	161	Fittig	G. J. C., 1877	
" " ....	....	"	....	161-162	Anschütz and Petri	B., 13, 1540	
Mesaconic acid ....	....	"	....	202	Swarts	G. J. C., 1868	
" " ....	....	"	....	202	Barbaglia	B., 7, 466	
" " ....	....	"	....	200	....	....	iii., 928
" " ....	....	"	....	200.5	Aarland	J. p. [2], 6, 256	26, 377
" " ....	....	"	....	202	Morawski	J. p. [2], 11, 430	28, 1254
" " ....	....	"	....	201-203	Böttiger	A., 188, 293	34, 32
" " ....	....	"	....	208	Gottlieb	G. J. C., 1852	26, 377
Ethenyltricarboxylic acid	COOH.CH ₂ .CH(COOH) ₂	C ₆ H ₆ O ₆	....	158	Bischoff	B., 13, 2162; 15, 1109	40, 156
" " ....	"	"	....	159	"	A., 214, 40	44, 45
" " ....	"	"	....	159	Conrad	B., 12, 752	36, 707
Ethylpropargyloxide	CH:C.CH ₂ .OEt	C ₅ H ₈ O	72	Liquid	Liebermann	A., 135, 284	vi., 98, 958
" "	"	"	80	Liquid	Liebermann and Kretschner	A., 158, 230	vii., 1007
" "	"	"	81-85	Liquid	Henry	B., 5, 275, 570	vii., 1007; 25, 480, 807
" "	"	"	82-84	....	Brühl	A., 200, 139	38, 296
Tiglic aldehyde (guajol)	CH ₃ .CH:CMc.CHO	"	118	Liquid	Deville	C. R., 17, 1143; 19, 134	ii., 945
" "	"	"	118-121	....	Herzig	M. C., 3, 118	42, 594
? ketone ....	....	"	129-131	....	Claisen	B., 8, 1258	32, 291
? " ....	....	"	129-131	....	Pinner	B., 15, 594	
? " ....	....	"	202-207	....	....	A., 217, 137	
Ethylacrylate	CH ₂ :CH.CO.OEt	C ₅ H ₈ O ₂	98.5	....	Weger	A., 221, 161	46, 11
" "	"	"	101-102; 100-101	Liquid	Caspary & Tollens	B. S., 20, 368; B., 5, 560	vii., 27; 25, 814
Allylic acetate	CH ₂ H:CH.C ₂ .OAc	"	98-100	....	Cahours & Hofmann	A., 102, 295	i., 21
" "	"	"	103-104(734)	....	Brühl	A., 200, 179	38, 296
" "	"	"	97-100	....	Hofmann & Cahours	J., 9, 585	
" "	"	"	105	....	Zinin	J., 8, 618	
Methyl α-crotonate ...	CH ₃ .CH:CH.COOMe	"	120.7	....	Kahlbaum	B., 12, 344	36, 521
From pyrotartaric chloride ...	....	"	203-205	Liquid	Hjelt	B., 16, 2624	46, 297
Valerolactone....	Me.CH.CH ₂ .CH ₂ .CO.O	"	206	l.-18	Wolff	A., 208, 104	42, 36
" "	"	"	206-207	Liquid	Fittig	B., 13, 955	38, 799
" "	"	"	206-207	l.-18	Messerschmidt	A., 208, 92	42, 35
" "	"	"	207 c.	l.-18	Hjelt	B., 15, 629	42, 948
" "	CHMe ₂ .CH.CO.O	"	260 d.	121-122	Demarçay	C. R., 82, 449	30, 507
Valerolactide ....	....	"	220-240	136	Schmidt & Sachtlenben	A., 193, 113	36, 140
Allylacetic acid	CH ₂ :CH.CH ₂ .CH. COOH	"	182	Liquid	Zeidler	B., 8, 1035	29, 368

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Allylacetic acid	$\text{CH}_2 : \text{CH} \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{COOH}$	$\text{C}_5\text{H}_8\text{O}_2$	182	....	Zeidler	A., 187, 39	32, 437
" "	"	"	184	....	Conrad & Bischoff	B., 13, 595	38, 628
" "	"	"	187-189	1.-18	Messerschmidt	A., 208, 92	42, 35
Tetramethylene carboxylic acid	$\text{CH}_2 : (\text{CH}_2)_2 : \text{CH} : \text{COOH}$	"	193-195	Liquid	Perkin	B., 16, 1795	44, 1084
Propylidene acetic acid	$\text{CH} \cdot \text{Et} : \text{CH} \cdot \text{COOH}$	"	194-198	Liquid	Kommenos	A., 218, 145	46, 423
Angelica acid ....	....	"	....	Liquid	Krämer & Grodzki	B., 11, 1360	36, 44
" "	$\text{C}_4\text{H}_7 \cdot \text{COOH}$	"	185	45	Fittig	B., 9, 1195	31, 97
" " ....	"	"	....	45	Büchner	A., 42, 226; 106, 62	38, 314
" "	"	"	190	45	Meyer and Zenner	A., 55, 321	i., 293
" " ....	"	"	....	45	Wright and Luff	33, 348	
" " ....	"	"	....	45	Schmidt	A. P. [3], 13, 213	36, 222
" "	"	"	184-185	45	"	B., 12, 254	
" "	"	"	185 c.	45-45.5	Kopp	A., 195, 85	36, 454
Methylcrotonic acid (tiglic acid)	$\text{CH}_3 \cdot \text{CH} : \text{CMe} \cdot \text{COOH}$	"	201.1 c.	64	Geuther & Fröhlich	Z. C. [2], 6, 26	vii., 395
" " "	"	"	196-197 u. c.	64	Berendes	B., 10, 835	32, 593
" " "	"	"	196-197 u. c.	64	Schmidt	A. P. [3], 13, 213	36, 222
" " "	"	"	196-197 u. c.	64	"	B., 12, 254, 257	"
" " "	"	"	198.5 c.	64.5	Kopp	A., 195, 88	36, 454
" " "	"	"	198.5	65	Fittig	B., 9, 1195	31, 97
" " "	"	"	194-196	61-62	Demarçay	C. R., 80, 1400	30, 70
" " "	"	"	....	64.5	"	B., 9, 1933	
" " "	"	"	....	62	Frankland & Duppá	18, 133	vi., 828
" " "	"	"	....	62.5	Rücker	B., 10, 1954	34, 292
" " "	"	"	....	64 c.	Wright and Luff	33, 348	
" " "	"	"	....	65 c.	"	"	
" " "	"	"	....	65	v. Miller	A., 200, 261	38, 315
Dimethylacrylic acid	$\text{CMe}_2 : \text{CH} \cdot \text{COOH}$	"	....	69.5	"	B., 10, 2036	34, 292
" " "	"	"	....	69.5	"	A., 200, 261	38, 314
" " "	"	"	....	69.5-70	"	B., 11, 2216	36, 307
" " "	"	"	....	68.5-69	Semlianitzine and Saytzeff	B. S. [2], 31, 199; A. C. [5], 19, 428	36, 618
" " "	"	"	....	69.5-70	Neubauer	A., 106, 163	
From ledum camphor	....	"	174	101	....	J. [1876], 909	
Pyroxanthin ....	....	"	....	144	....	....	iv., 776
Ethyl pyroracemate	$\text{CH}_3 \cdot \text{CO} \cdot \text{COOEt}$	$\text{C}_5\text{H}_8\text{O}_3$	130 d.	Liquid	Böttlinger	B., 14, 317	40, 418
Epiphydrin acetate	$\text{O} \cdot \text{CH}_2 \cdot \text{CH} \cdot \text{CH}_2 \cdot \text{OAc}$	"	168-169	....	Gegerfelt	B. S. [2], 23, 160	28, 879
" " "	"	"	164-168	Liquid	Breslauer	J. p. [2], 20, 188	38, 29
" " "	"	$(\text{C}_5\text{H}_8\text{O}_3)_n$	258-261	Liquid	"	"	"
Acetyl carbinol acetate (pyruvic acetate)	$\text{Me} \cdot \text{CO} \cdot \text{CH}_2 \cdot \text{OAc}$	$\text{C}_5\text{H}_8\text{O}_3$	169-170	....	Brandes	J. [1866], 305	vi., 829
" " "	"	"	172-172.5	....	Breuer and Zincké	B., 13, 638	38, 645
" " "	"	"	175 (745)	Liquid	Henry	B., 5, 966	vii., 14; 26, 379
Butineglycol formate	$\text{C}_4\text{H}_8(\text{OH})(\text{O} \cdot \text{CHO})$	"	190	....	Heninger	B., 5, 1059; 6, 71	
Butyrylformic acid	$\text{CH}_3 \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{CO} \cdot \text{COOH}$	"	115 (82-84); 180-185 (760)	....	Moritz	39, 18	
β -acetylpropionic acid (levulinic)	$\text{CH}_2\text{Ac} \cdot \text{CH}_2 \cdot \text{COOH}$	"	239	31	Conrad	A., 188, 223	34, 137
" " "	"	"	239	....	"	B., 11, 2178	36, 453
" " "	"	"	235-255	32.5-33.5	Grote and Tollens	B., 10, 1442	32, 882
" " "	"	"	250-260	a. 11	"	B., 7, 1376	28, 250
" " "	"	"	239	31-31.66	Grote, Kehrér, and Tollens	A., 206, 207	40, 410
Hydroxypentinic acid	....	"	....	94-95	....	A. C. [5], 20, 488	
Methoxy-acid....	From β -Chlorisocrotonic acid	"	....	128.5	Friedrich	B., 15, 218	42, 945
Oxyangelic acid	....	"	270-280	184	Demarçay	C. R., 83, 449	30, 507
Ethyl methylic oxalate	$\text{COOEt} \cdot \text{COOMe}$	$\text{C}_5\text{H}_8\text{O}_4$	160-170	Liquid	Chancel	Co. C., 1850	iv., 271

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dimethylic malonate	.... $\text{CH}_2(\text{COOMe})_2$	$\text{C}_5\text{H}_8\text{O}_4$	175-180	Liquid	Osterland	B., 7, 1286	26, 142
" "	.... "	"	181.5 c.	....	Perkin	....	45, 509
Diacetoxymethane	.... $\text{CH}_2(\text{OAc})_2$	"	170	....	....	A., 107, 111; 111, 245	
Glutaric acid	.... $\text{COOH}(\text{CH}_2)_3\text{COOH}$	"	....	abt. 97	Ritthausen	J. p. [2], 5, 354	vii., 562
" "	.... "	"	....	abt. 97	Dittmar	J. p. [2], 5, 344	vii., 423; 25, 815
" "	.... "	"	....	97	Baeyer	B., 10, 1286	34, 4
" "	.... "	"	....	96-97	Wislicenus and Limpach	A., 192, 128	
" "	.... "	"	....	96	Conrad & Guthzeit	B., 15, 2843	
" "	.... "	"	215; 302-304	97.5; 95.5	Markownikoff	A., 182, 341	31, 62
" "	.... "	"	....	96.5	Moriya	....	39, 79
" "	.... "	"	....	97	"	....	39, 80
" "	.... "	"	291; 299 c.	96.5	Reboul	A. C. [5], 14, 501	36, 134
" "	.... "	"	....	97	"	B. S. [2], 25, 386	30, 287
" "	.... "	"	....	103-104	"	"	"
Pyrotartaric acid (methyl succinic)	$\text{COOH}.\text{CHMe}.\text{CH}_2.\text{COOH}$	"	a. 190	a. 100	Arppe	A., 66, 73	
" "	"	"	....	110-112.5	Kekulé	As., 1, 338	
" "	"	"	180-190	111-112	Pelouze	A., 16	
" "	"	"	....	112	Moldenhauer	G. J. C., 1864	
" "	"	"	....	110-112	Clermont	B. S. [2], 19, 103	26, 495
" "	"	"	....	111-112	Wislicenus	A., 149, 220	vii., 1035
" "	"	"	....	111-112	Reboul	B. S. [2], 25, 386	30, 287
" "	"	"	....	111.5	Kressner	A., 192, 135	34, 783
" "	"	"	abt. 200	112	....	....	iv., 772
" "	"	"	....	112	Bischoff	B., 15, 1109	42, 1188
" "	"	"	....	112	Markownikoff	A., 182, 324	31, 61
" "	"	"	....	112.5	Böttinger	A., 188, 293	34, 32
" "	"	"	....	113	"	"	"
Ethylmalonic acid	.... $\text{COOH}.\text{CHEt}.\text{COOH}$	"	....	111-112	Wislicenus & Urech	A., 165, 93	26, 376
" "	"	"	....	111-112	Demarçay	B. S. [2], 25, 386	30, 287
" "	"	"	....	111.5	Conrad	B., 12, 751	36, 707
" "	"	"	....	111.5	Markownikoff	A., 182, 329	31, 62
" "	"	"	....	Liquid	Wislicenus	A., 149, 220	vii., 1035
Uvic acid	....	"	....	133	Bottinger	B., 8, 1584	29, 566
" "	....	"	....	133	"	B., 9, 838	30, 400
Lipic acid	.... $\text{C}_5\text{H}_6\text{O}_4$ ?	"	....	n. f. 140	Laurent	A. C., 66, 169	iii., 704
" "	....	"	....	150	Wurz	A., 105, 257	"
Dimethylmalonic acid	.... $\text{Me}_2\text{C}(\text{COOH})_2$	"	....	165 d.	Pinner	B., 15, 581	42, 942
" "	"	"	s.b. 120	170 d.	Markownikoff	A., 182, 336	31, 62
" "	"	"	....	185	Conrad & Guthzeit	B., 14, 1644	
" "	"	"	....	186 p. d.	Thorne	39, 544	
(?) "	From phoronic acid	"	....	190	Pinner	B., 15, 585	42, 942
Glycerol diformin	.... $\text{C}_3\text{H}_5.\text{OH}(\text{O}.\text{CHO})_2$	$\text{C}_5\text{H}_8\text{O}_5$	163-166 (20-30)	....	Romburgh	C. R., 93, 847; B., 16, 393	42, 378
Itamalic acid	.... $\text{CH}_2(\text{OH}).\text{CH}(\text{COOH}).\text{CH}_2.\text{COOH}$	"	....	60-65	Swarts	B. A. B. [2], 24, 25	vi., 761
" "	"	"	....	60-65	Morris	37, 14	
α -Hydroxyglutaric acid	.... $\text{COOH}.\text{CH}(\text{OH}).\text{CH}_2.\text{CH}_2.\text{COOH}$	"	....	72-73	Markownikoff	A., 182, 347	31, 63
" "	"	"	....	72	Lippmann	B., 15, 1157	
" "	"	"	....	73	Ritthausen	J. p. [1], 103, 239	
Ethyltartronic acid	.... $\text{CEt}(\text{OH})(\text{COOH})_2$	"	....	98	Guthzeit	A., 209, 233	42, 39
" "	"	"	....	98	Conrad	B., 14, 618	
Methylhydroxysuccinic acid	.... $\text{COOH}.\text{CMe}(\text{OH}).\text{CH}_2.\text{COOH}$	"	....	106	Bredt	B., 14, 1783	42, 162
" "	"	"	....	108	Morris	37, 8	
" "	"	"	....	(?)	Demarçay	C. R., 82, 1337	
Citramalic acid	.... $\text{C}_3\text{H}_5(\text{OH})(\text{COOH})_2$	"	....	a. 100	Morawski	J. p. [2], 11, 430	28, 1253
" "	"	"	....	119	"	W. A., 76, 670	36, 707

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Mesamalic acid	$C_3H_5(OH)(COOH)_2$	$C_6H_8O_6$	....	129-130	....	G. H., 502	
β -Hydroxyglutaric acid	$COOH.CH_2.CH(OH).CH_2.COOH$	"	....	133	Simpson	A., 157, 34	24, 133
" " ....	"	"	....	(?)	Markownikoff	A., 182, 347	31, 64
" " ....	"	"	....	abt. 135	Simpson	P. R. S., 13, 44	iv., 315
Citratartaric acid ....	....	$C_6H_8O_6$	....	a. 100	Carius	A., 129, 164	v., 696
Aposorbic acid	$C_3H_5O_3(COOH)_2$	$C_6H_8O_7$	170 p. d.	abt. 110	Dessaigues	R. C. p., 5, 41	vi., 190
(?)	$C_3H_5.CMe.OH$?	C_6H_9O (?)	110-115	....	Pawlewski	B., 5, 331	25, 1093
Methylisocrotyl oxide	$CMe_2:CH.OMe$	$C_5H_{10}O$	70-74	Liquid	Eltekoff	B., 10, 705	
Allylethyl oxide	$Et.O.CH_2.CH:CH_2$	"	abt. 64	....	Hofmann & Cahours	J., 9, 583	
" "	"	"	62.5	....	Berthelot & De Luca	J., 9, 590	
" "	"	"	60-65	....	Henry	B., 5, 569	25, 807
" "	"	"	66.5	....	Brühl	A., 200, 177	38, 296
" "	"	"	67.2 ; 245 c. t.	....	Pawlewski	B., 16, 2633	46, 252
" "	"	"	84	Liquid	....	....	i., 142
" "	"	"	85	....	Grosheintz	B. S. [2], 31, 390	36, 780
Ethylallyl alcohol	$C_3H_4Et.OH$	"	120	....	Wurtz	....	24, 1025
? ketone ....	....	"	76-81	Liquid	Bouchardat	C. R., 93, 316	40, 1114
? " ....	....	"	90-100	....	Linnemann	Z. C. [2], 4, 57	iv., 959
Methylisopropyl ketone	$Me.CO.Pr^{\beta}$	"	92	....	Ceresole	B., 15, 1875	
" "	"	"	93.5	....	Geuther	....	vi., 768
" "	"	"	93.5	....	Frankland & Duppa	J., 18, 309	
" "	"	"	93-94	....	Münde	B., 7, 1371	28, 247
" "	"	"	93-94	....	Münch	A., 180, 327	30, 68
" "	"	"	93-94	....	Winogradow	A., 191, 125	34, 484
" "	"	"	94.1	....	Kachler	A., 191, 63	34, 514
" "	"	"	94-95	....	Eltekoff	J. R., 82, 355	44, 566
" "	"	"	95	....	Butlerow	A., 144, 1	vi., 969
" "	$(C_5H_{10}O)_n$	"	b. 200	....	Kaschirski	C. C. [1881], 278	42, 37
Methylpropyl ketone	$Me.CO.Pr^{\alpha}$	"	95	....	Butlerow	B. S. [2], 5, 17	vii., 1022
" "	"	"	90-95	....	Fittig	A., 110, 18	i., 31
" "	"	"	95-105	....	Bruylants	B., 8, 411	
" "	"	"	100-102	....	Kutscheroff	B., 14, 1542	
" "	"	"	abt. 100	....	Geuther	J. Z., 6, 560	vii., 488
" "	"	"	101 (760)	....	"	J., 20, 455	vi., 768
" "	"	"	99-101	Liquid	Grimm	A., 157, 251	vii., 1022 ; 24, 385
" "	"	"	101	Liquid	Frankland & Duppa	J., 18, 307	24, 386
" "	"	"	100-102	....	Popoff	A., 161, 285	
" "	"	"	101-103	....	Wichnegradsy	A., 190, 328	34, 394
" "	"	"	102 c.	....	Perkin	....	45, 479
" "	"	"	103	....	....	....	vi., 112
" "	"	"	102-105	....	Schlörlemmer	P. T. [1872], 111	25, 1085
" "	"	"	103	....	Wagner & Saytzeff	A., 179, 322	29, 548
" "	"	"	111	....	Friedel	A. C. [4], 16, 366	vii., 1022 ; 24, 386
Diethyl ketone	$Et.CO.Et$	"	100-101	....	Freund	J., 13, 313	
" "	"	"	100-101	....	Schmidt	B., 5, 599	25, 892
" "	"	"	101	Liquid	Chapman & Smith	J., 20, 453	iv., 729
" "	"	"	100-105	....	Destrem	B., 16, 227 ; A. C. [5], 27, 5	
" "	"	"	104	....	Wagner & Saytzeff	A., 179, 322	29, 548
" "	"	"	110	....	Limpricht & Uslar	J., 8, 510	24, 386
Pivalic aldehyde	$CMe_2 \begin{array}{c} \diagup \\ O \end{array}$	"	abt. 90	....	Friedel and Silva	C. R., 77, 48	26, 1127
Methylethyl acetic aldehyde	$CHMeEt.CHO$	"	85	....	Eltekoff	B., 10, 706	
Iso-valeric aldehyde	$CHMe_2.CH_2.CHO$	"	90.5-91	....	Erlenmeyer & Hell	A., 160, 257	
" "	"	"	90-92	....	Herzig	M. C., 3, 118	42, 594
" "	"	"	92.5-92.9	....	Lossen	A., 214, 154	
" "	"	"	90	....	Personne	J., 7, 654	
" "	"	"	92-94 c.	....	Perkin	....	45, 477

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Iso-valeric aldehyde	CHMe ₂ .CH ₂ .CHO	C ₅ H ₁₀ O	92.5	....	Pierre and Puchot	B. S. [2], 9, 1033	vii., 62
" "	"	"	92.5	....	" "	C. R., 76, 1332	26, 1017
" "	"	"	92.5 (758.2)	....	Schröder	B., 4, 400	24, 559; vii., 1195
" " ....	....	"	92.8 (740)	....	Kopp	A., 95, 315	v., 972
" " ....	....	"	93.6-93.8 (760)	....	"	A., 97, 370	
" "	(C ₅ H ₁₀ O) _n	"	215	....	Wanklyn	J., 22, 530	
" " ....	"	"	....	83-84	Bruylants	B., 8, 415	
Valeric aldehyde ....	....	"	96-97 (760)	....	Kopp	....	v., 972
" " ....	....	"	96-98	....	Rénard	A. C. [6], 1, 223	46, 844
" " ....	....	"	97-98	....	Schmidt	B., 5, 597	25, 892
" "	CH ₃ .(CH ₂) ₃ .CHO	"	101	....	?	?	vi., 959
" "	"	"	102	....	Lieben and Rossi	G. I., 1, 314	24, 1033; vii., 1195
" "	"	"	abt. 110	....	Chancel	J. F. P., 36, 447	
" "	"	"	110	....	Limpricht & Usler	J. [1865], 509	vi., 959
" "	"	"	111	....	Friedel	A., 108, 122	iii., 1002
" "	(C ₅ H ₁₀ O) _n	"	150-200	....	Parkinson	A., 90, 114	v., 972
From colophony ....	....	"	90-95	....	Bruylants	B., 8, 1464	29, 615
Trimethylethylene oxide	O.CMe ₂ .CHMe	"	75-76	....	Eltekoff	J. R. [1882], 355	44, 566
Methylethylene oxide	O.CHEt.CHMe	"	80	....	"	B., 16, 396	"
Isopropylethylene oxide	O.CH ₂ .CHPr ³	"	82	....	"	"	"
Amylene oxide	C ₅ H ₁₀ :O	"	95	Liquid	Bauer	C. R., 51, 500	i., 209
" "	"	"	95	....	Niederist	A., 196, 349	36, 700
Valerylene hydrate ....	....	"	115-120	....	Reboul	C. R., 64, 284	vi., 1124
Isoprene hydrate (alcohol) ....	....	"	120-130	....	Bouchardat	C. R., 89, 1117	38, 323
Butylic formate	H.COO.(CH ₂) ₃ .CH ₃	C ₅ H ₁₀ O ₂	104-105	....	....	M. C., 2, 692	
Isobutylic formate	H.COO.CH ₂ .CHMe ₂	"	abt. 100	Liquid	Wurtz	A., 93, 121	ii., 695
" "	"	"	98.5	....	Pierre and Puchot	A. C. [4], 22, 319	
" "	"	"	97.9 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	97.9	....	Elsasser	A., 218, 302	44, 967
Propylic acetate	CH ₃ .COOPr ³	"	95-100	....	Hodgkinson	....	37, 483
" "	"	"	99-101	....	Brühl	A., 200, 139	38, 296
" "	"	"	100-101	....	Rossi	C. R., 70, 129	vi., 964
" "	"	"	100-101 (750)	....	"	G. I., 1, 230	24, 1032
" "	"	"	102 (750)	....	"	A., 159, 81	vii., 8
" "	"	"	100-102	....	Tollens	Z. C. [2], 7, 249	25, 998
" "	"	"	100.8	....	Elsasser	A., 218, 302	44, 967
" "	"	"	101.98	....	Linnemann	A., 161, 30	vii., 203, 1013; 25, 203
" "	"	"	100.8 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	102	....	Chancel	C. R., 68, 659, 726	vi., 964
" " diff. samples	"	"	103	....	Pierre and Puchot	C. R., 66, 302	vi., 964
" " " "	"	"	105	....	" "	Z. C., 12, 660	vi., 963
" " " "	"	"	103	....	" "	A. C. [4], 22, 289	
" " " "	"	"	102-103 c.	....	Perkin	....	45, 494
" " " "	"	"	100.3; 282.4 c. t.	....	Pawlewski	B., 15, 2463	44, 276
Isopropylic acetate	CH ₃ .COOPr ³	"	90-93	....	Friedel	A., 124, 327	v., 891
" "	"	"	90	Liquid	Berthelot	....	i., 24
" "	"	"	88-91	....	....	M. C., 2, 686	
Ethylic propionate	CH ₃ .CH ₂ .COOEt	"	98.84; 98.8 (732)	....	Linnemann	A., 160, 219	vii., 203
" "	"	"	101	....	Limpricht & Usler	J., 8, 509	
" "	"	"	93.2-98	....	Kopp	A., 94, 322	
" "	"	"	97.7-97.9 (753)	....	"	A., 95, 316	
" " diff. samples	"	"	100 (760)	....	Pierre and Puchot	Z. C., 12, 660	
" " " "	"	"	100 (760)	....	" "	A. C. [4], 22, 351	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyllic propionate	$\text{CH}_3\text{CH}_2\text{COOEt}$	$\text{C}_5\text{H}_{10}\text{O}_2$	98.3 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	98.3	....	Weger	A., 221, 61	46, 11
" "	"	"	98.3	....	Elsasser	A., 218, 302	44, 967
" "	"	"	99.5-99.8 c.	....	Perkin	....	45, 496
" "	"	"	98.5 ; 280.6 c. t.	....	Pawlewski	B., 15, 2463	44, 276
Methyllic butyrate	$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOMe}$	"	101	....	Kahlbaum	B., 12, 344	36, 521
" "	"	"	95.1-103 (736-742)	....	Zander	A., 214, 184	
" "	"	"	102	Liquid	Atkinson	....	i., 696
" "	"	"	102.5-103.5 (760)	....	Krämer & Grodzki	B., 11, 1358	
" "	"	"	102.3	....	Elsasser	A., 218, 313	44, 967
" "	"	"	102-103 c.	....	Perkin	....	45, 499
" "	"	"	102.1	....	Pierre	C. R., 27, 213 ; P. A., 76, 458	
" "	"	"	95.9 (760)	....	Kopp	P. A., 72	
" "	"	"	93	....	Delffs	J., 7, 26	
" "	"	"	93	....	Favre & Silbermann	A., 95, 315	
" isobutyrate	$\text{CHMe}_2\text{COOMe}$	"	93 (760)	....	Pierre and Puchot	C. R., 75, 1006	26, 55; vii., 226
" "	"	"	92.3 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	92.3	....	Elsasser	A., 218, 302	44, 967
" "	"	"	89-91	....	....	M. C., 2, 682	
" "	"	"	91.7 ; 273.6 c. t.	....	Pawlewski	B., 15, 2463	44, 276
Valeric acid	$\text{CH}_3(\text{CH}_2)_3\text{COOH}$	"	185.75 c.	....	Kehrer and Tollens	A., 206, 237	40, 411
" "	"	"	185	....	Lieben and Rossi	C. R., 71, 370	vi., 106, 1121
" "	"	"	184-185 c. (736)	l. -16	" "	G. I., 1, 239 ; A. 159, 58	24, 1044 ; vii., 1197
" "	"	"	183-185.75	....	Lossen	A., 214, 154	
" "	"	"	183-185	....	Cahours & Demarçay	C. R., 89, 331	36, 1036
" "	"	"	185.2-187.2 c.	....	Perkin	....	45, 484
" "	"	"	183-185	....	Krämer & Grodzki	B., 11, 1359	
" "	"	"	183-185	....	Fitz	B., 13, 1309	
Isovaleric acid	$\text{CHMe}_2\text{CH}_2\text{COOH}$	"	178	....	Pierre and Puchot	C. R., 76, 1332	vii., 62 ; 1200
" "	"	"	178 (760)	....	" "	C. R., 75, 1005 ; A. C. [4], 29, 228	26, 55, 874, 1017
" "	"	"	175.8 (746)	....	Kopp	A.	v., 976
" "	"	"	175	l. -15	Dumas and Stas	A., 35, 145	"
" "	"	"	175	l. -15	Person	J., 1, 91	"
" "	"	"	175	....	Lieben and Rossi	G. I., 1, 239	24, 1044
" "	"	"	195 (?)	....	Ramsay	....	35, 469
" "	"	"	abt. 175	....	Vincent	B. S. [2], 31, 156	36, 612
" "	"	"	175	....	Personne	J., 7, 653	
" "	"	"	174-176	....	Popoff	B., 5, 39	vii., 712 ; 25, 408
" "	"	"	173-176 n. c.	....	Grimshaw	26, 317	
" " (inactive)	"	"	174.1 (723.5)	....	Balbiano	G. I., 6, 229	31, 293
" "	"	"	174	....	Landolt	P. A., 117, 353	
" "	"	"	173.2-175.8	....	Lossen	A., 214, 154	
" "	"	"	173-175	....	Rénard	A. C. [6], 1, 223	46, 844
" "	"	"	174	....	....	A., 204, 151	
" "	"	"	175.5-176.5	....	Perkin	....	45, 488
" "	"	"	174.5	....	Delffs	A., 92, 277	
" "	"	"	173.2-174.3 (718.3)	....	Erlenmeyer & Hell	A., 160, 257	vii., 1199
" "	"	"	172.6-174.1 c. (722.5)	....	" "	"	"
" " (inactive)	"	"	174.5 c. (721)	....	" "	"	"
" " "	"	"	171.5 (721.8)	....	" "	"	25, 243
" " "	"	"	171-172 n. c. (722.5)	....	" "	"	25, 242

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isovaleric acid	CHMe ₂ .CH ₂ .COOH	C ₅ H ₁₀ O ₂	174	....	Conrad & Bischoff	B., 13, 596	38, 627
" "	"	"	175	....	Frankland & Duppa	J., 20, 396	
" " (inactive)	"	"	175	....	Pedler	21, 74	vi., 1121
" " "	"	"	175 u. c. (754·8)	....	Schmidt and Sachtleben	A., 193, 91	36, 139
Methylethylacetic acid	CHMeEt.COOH	"	173-175	....	Berendes	B., 10, 836	32, 593
" "	"	"	173-175 u. c.	....	Schmidt	B., 12, 257; A., 208, 256, 262	36, 618; 40, 1126
" "	"	"	173 u. c.	....	Saur	B., 8, 1037	29, 370
" "	"	"	173 u. c.	....	"	A., 188, 257	34, 27
" " (inactive)	"	"	173	....	Conrad & Bischoff	B., 13, 596	38, 628
" " [+]....	"	"	174 (770)	1. 15	Lescœur	B. S. [2], 27, 104	31, 589
" " [+]....	"	"	172·5-173·5 (721)	....	Erlenmeyer & Hell	A., 160, 268	vii., 1198
" " [+]....	"	"	171-173 (718·3)	....	" "	"	"
" " [+]....	"	"	172·5-173·5 (721)	....	" "	"	"
" " [+]....	"	"	173; 174-175	....	Ley	B., 6, 1368	27, 351
" "	"	"	170-176	....	Müller	B., 14, 2478	42, 496
" " [+]....	"	"	168-171	....	Erlenmeyer & Hell	A., 160, 257	25, 243; vii., 1199
" " [+]....	"	"	168-171 c. (720·8)	....	" "	"	" "
" "	"	"	177	Liquid	Pagenstecher	A., 195, 118	36, 456
" " [+]....	"	"	170	....	Pedler	21, 74	vi., 1121
Trimethylacetic acid....	Me ₃ C.COOH	"	163·7-163·8 (760)	35·3-35·5	Butlerow	B., 7, 728; A., 173, 355	27, 1083; 28, 248
" "	"	"	163·5	33	"	"	"
" "	"	"	161	34-35	"	A., 170, 151; B., 5, 478	vii., 221, 1182; 26, 48; 27, 248
" "	"	"	160-163	26	Friedel and Silva	B., 6, 146	
" "	"	"	163	29-30	" "	C. R., 77, 48	26, 1126
Ethylpyruvyl oxide	Me.CO.CH ₂ .OEt	"	128	Liquid	Henry	C. R., 93, 421	40, 1121
Ethylglycide	O. <u>CH₂</u> .CH.CH ₂ .OEt	"	128-129	Liquid	Reboul	A. C. [3], 60, 58	ii., 897
Acrolein alcoholate	Me.CH(OEt).COH	"	130 d.	....	Faubert	J. Z. N., 10, 1	31, 296
Fucusol ....	....	"	171-172	....	Stenhouse	P. M. [3], 18	ii., 718
Diethyl carbonate	CO.(OEt) ₂	C ₅ H ₁₀ O ₃	125-126	Liquid	Ettling	A., 19, 17	i., 800
" "	"	"	125	....	Salomon	J. p. [2], 6, 433	26, 620
" "	"	"	125 (730)	....	Schreiner	J. p. [2], 22, 353	40, 88
" "	"	"	125	....	Cahours		
" "	"	"	126	....	Clermont	J., 7, 561	
" "	"	"	123·5-125·8 (749)	....	Kopp	A., 95, 325	
" "	"	"	126-126·4 (748)	....	Brühl	A., 200, 139	
Methylic propylic carbonate	CO(OMe)OPr ^a	"	130·8 c.	....	Röse	A., 205, 245	40, 252
Ethylic methylglycollate	CH ₂ (OMe).COOEt	"	131	....	Fölsing	B., 17, 486	46, 897
" "	"	"	138·6	....	Schreiner	B., 12, 179	36, 522
" "	"	"	138·6	....	"	J. p. [2], 22, 353	40, 88
Methylic ethylglycollate	CH ₂ (OEt).COOMe	"	142	....	"	A., 197, 8	"
" "	"	"	152	....	"	B. 12, 179	36, 522
" "	"	"	148	....	Fölsing	B., 17, 486	46, 897
Propylic glycollate	CH ₂ (OH).COOPr ^a	"	170	....	Schreiner	B., 12, 179	36, 522
" "	"	"	170·5	....	"	A., 197, 6	
Ethylic α-lactate	CH ₃ .CH(OH).COOEt	"	154·5	....	"	B., 12, 179	36, 522
" "	"	"	156 (753)	....	Wurtz and Friedel	A. C. [3], 63, 102	iii., 463
Methylic methylactate	CH ₃ CH(OMe).COOMe	"	135-138	....	Markownikoff and Krestownikoff	A., 208, 333	40, 1127
Ethyl-lactic acid	CH ₃ .CH(OEt).COOH	"	195-198	....	Wurtz	A. C. [3], 59, 174	iii., 464

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylethyl hydroxyacetic acid	CMeEt(OH).COOH	C ₅ H ₁₀ O ₃	190 d.	63	Frankland & Duppa	P. R. S. ; A., 136, 9	iv., 275
" " "	"	"	....	63	Böcking	A., 204, 18	38, 872
" " "	"	"	....	68	Miller	B., 12, 1544 ; A., 200, 282	38, 35, 315
Hydroxyisopropylacetic acid	CHPr ^β (OH).COOH	"	....	80	Fittig and Clark	A., 139, 200	vi., 894, 1123 ; 27, 1082
" " "	"	"	....	82	Schmidt and Sacht- leben	A., 193, 106	36, 140
" " "	"	"	....	83	Lipp	A., 205, 28	40, 86
" " "	"	"	....	86	Ley and Popoff	B., 7, 732	27, 1082
Acetoglycerol....	C ₃ H ₅ (OH)(O ₂ :C ₂ H ₄)	"	184-188	....	Harnitzky and Menschutkin	B. S. [2], 3, 253 ; A., 136, 126	vi., 637
Valerolactone....	....	"	207 c.	l. -18	Hjelt	B., 15, 623	
Ethylglycerate	CH ₂ (OH).CH(OH).COOEt	C ₅ H ₁₀ O ₄	230-240	Liquid	Henry	B., 4, 706	24, 908 ; vii., 563
From ethyl orsellinate ....	....	C ₆ H ₁₀ O ₆	....	60	Hesse	A., 117, 297	iv., 236
Propylethyl oxide	Et.O.Pr ^α	C ₆ H ₁₂ O	65-3	....	Brühl	A., 200, 177	38, 296
" "	"	"	63-64	....	....	A., 151, 305	
" "	"	"	68-70	....	Chancel	C. R., 68	vi., 964
Isopropylethyl oxide	Et.O.Pr ^β	"	54-55	....	Morkownikoff	A., 138, 374	
" "	"	"	47-48	....	....	C. R., 93, 69	
Amyl alcohol	CH ₃ .(CH ₂) ₃ .CH ₂ OH	"	137 (744)	....	Lieben and Rossi	C. R., 71, 370	vi., 106
" "	"	"	137 (740)	....	" "	A., 159, 70 ; G. I., 1, 314	vi., 1137 ; 24, 1033 ; 26, 1082
" "	"	"	137	....	Schorlemmer	27, 1030	vii., 868
" "	"	"	134-137	....	"	P. T. [1872], 111	vii., 63 ; 25, 1085
" "	(?)	"	134	....	Rieckher	J., 1, 698	
" " (+)	(?)	"	133-134	....	Bakhoven	P. A. eb., 6, 325 ; B., 9, 358	27, 140
" "	(?)	"	133	....	Kopp	A., 55, 166	
" " (inactive)	Me ₂ .CH.CH ₂ .CH ₂ OH	"	131.4 (747)	....	Balbiano	G. I., 6, 229	31, 293
" " "	"	"	131	....	Flavitzky	A., 169, 205	27, 138
" " "	"	"	131.5 c.	....	Perkin	....	45, 470
" "	"	"	128.9-133 (741-751)	....	Lossen	A., 214, 154	
" "	"	"	132.1 ; 306.6 c. t.	....	Pawlewski	B., 16, 2634	46, 252
" " ....	"	"	....	s. -134	Olzewski	M. C., 5, 127	46, 816
" " (inactive)	"	"	128-132	....	Lieben and Rossi	G. I., 1, 314	24, 1034 ; vi., 1137
" " "	"	"	129	....	Pedler	A., 147, 249	vi., 106 ; 21, 74
" "	"	"	129-131	....	Gladstone & Tribe	....	39, 7
" " (inactive)	"	"	129-130.1 (714.8)	....	Erlenmeyer & Hell	A., 160, 257	25, 243
" "	"	"	128-132	....	Bertoni and Truffi	G. I., 14, 23	46, 1110
" "	Me ₂ .CH.CH ₂ .CH ₂ OH or Et.CHMe.CH ₂ OH	"	132	s. -22	....	....	i., 203
" "	" " "	"	132	....	Cahours	A., 30, 288	
" "	" " "	"	132	....	Person	J., 1, 91	
" "	" " "	"	132	....	Thorpe	....	37, 151
" "	" " "	"	131.8	....	Pierre	J., 1, 52	
" "	" " "	"	132	....	Delffs	J., 7, 26	
" " different sources	" " "	"	132	....	Schorlemmer	J., 19, 527	
" " " " "	" " "	"	132	....	"	"
" "	" " "	"	128-131	....	"	....	28, 308
" "	" " "	"	130-132	....	J. Regnault and Hardy	J. P. [4], 30, 405	38, 456
" "	" " "	"	129-132	....	Demarçay	C. R., 77, 360	26, 1227
" "	" " "	"	128-132	....	Rabateau	C. R., 87, 501	36, 36
" " (active)	CH ₃ .CH ₂ .CHMe.CH ₂ OH	"	130.5-131.5 c.	....	Perkin	....	45, 469
" "	"	"	130.9-131.6	....	Kopp	A., 96, 255	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Amyl alcohol (active)	$\text{CH}_3\text{CH}_2\text{CHMeCH}_2\text{CH}$	$\text{C}_6\text{H}_{12}\text{O}$	131.1 (760)	....	Kopp	P. A., 72	
" " (—)	"	"	130-131.5	....	Popoff	B., 5, 381	vii., 712; 25, 408
" " (—)	"	"	130-130.2 (760)	....	Pierre and Puchot	A., 163, 253; B. S. [2], 9, 1033	25, 888; vii., 62
" " (—)	"	"	130	....	" "	C. R., 76, 1332	26, 1017
" " (active)	"	"	127-131	....	Plimpton	....	39, 334
" " (—)	"	"	128	....	Pedler	A., 147, 243	vi., 106; 21, 74
" " (—)	"	"	128	....	Ley	B., 6, 1363	27, 350
" " (—)	"	"	127-128	....	Pasteur		
" " (—)	"	"	125-130	....	Erlenmeyer & Hell	A., 160, 257	
" "	"	"	128-129	....	Etard	C. R., 86, 488	34, 393
" "	"	"	125-126	....	Herzig	M. C., 3, 118	42, 594
" " (active)	"	"	127	....	Le Bel	B., 6, 1315; 9, 733	
" "	(?)	"	113-121	....	"	C. R., 73, 499	24, 1025
" "	(?)	"	121	....	"	Z. C., 14, 471	
" "	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_3$	"	120-123	....	Friedel	Z. C. [2], 5, 486	vi., 112
" "	"	"	120-123	....	Lieben and Rossi	G. I., 1, 314	24, 1034; vi., 1137
" "	"	"	120-122	....	Schorlemmer	P. T. [1872], 111	25, 1085
" "	"	"	120 (759)	....	Wurtz	Z. C. [2], 4, 490	vi., 112
" "	"	"	120	....	Rabateau	C. R., 87, 501	36, 36
" "	"	"	118.5-119.5	....	Linnemann	B., 9, 925	30, 504
" "	"	"	117.5-119	....	Wischnegradsky	A., 190, 348	34, 394
" "	"	"	118-120	....	Grimm	A., 157, 249	24, 386
" "	"	"	118.5	....	Wagner & Saytzeff	A., 179, 313	29, 548
" "	"	"	116-120	....	Le Bel	C. R., 89, 312	36, 1029
" "	$\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$	"	116-117	....	Wagner & Saytzeff	A., 175, 351	28, 628
" "	"	"	116.5	....	" "	A., 179, 313	29, 548
" "	$\text{Me}_2\text{CH}\cdot\text{CH}(\text{OH})\cdot\text{CH}_3$	"	113	l.—33	Winogradow	A., 191, 127	34, 484
" "	"	"	112.5	....	Butlerow	B., 10, 407	32, 589
" "	"	"	112.5	l. f. m.	Wischnegradsky	A., 190, 338; B., 10, 405	32, 420; 34, 393
" "	"	"	108	Liquid.	Münch	A., 180, 339	30, 68
" "	"	"	108	....	Münde	B., 7, 1371	
" "	"	"	108	....	Kolbe	....	vi., 112
" "	"	"	104-108	....	Lieben and Rossi	G. I., 1, 314	24, 1034; vi., 1137
" "	"	"	105 (768)	....	Wurtz	A. C. [4], 3, 137	vi., 112
" "	"	"	105	....	Le Bel	B., 5, 216	
" "	"	"	102-105	l.—30	Osipoff	B., 8, 1240	29, 545
" "	"	"	102-103	l.—30	"	B., 8, 542	28, 877
" "	"	"	102-104	....	Flavitzky	B., 5, 479	26, 45
" "	$\text{Me}_2\text{C}(\text{OH})\cdot\text{CH}_2\cdot\text{CH}_3$	"	105-108	....	Wurtz	A., 125, 114	34, 394
" "	"	"	103-104	....	Flavitzky	A., 179, 349	
" "	"	"	102.3 (761.2)	....	"	A., 179, 340	29, 545
" "	"	"	102-104	....	"	A., 165, 157	26, 369
" "	"	"	100-108	....	"	"	vii., 64
" "	"	"	102-104	....	Winogradow	A., 191, 125	34, 484
" "	"	"	102.5	s.—12	Wischnegradsky	B., 10, 404	32, 420
" "	"	"	102.5	—12	"	A., 190, 336	34, 393
" "	"	"	101.5-102 c.	—12	Perkin	....	45, 471
" "	"	"	98.5-102	b.—17	Popoff	A., 145, 292	vi., 115
" "	"	"	99-100	s.—30	Ermolaïen	Z. C., 14, 275	
" "	"	"	98.5-100	....	Lieben and Rossi	G. I., 1, 314	vi., 1137; 24, 1034
" "	"	"	96-97	s.—30	Osipoff	B., 8., 542	28, 877
" "	"	"	95-97	s.—21	"	B., 8, 1242	29, 545
" "	"	"	b. 100	....	Flavitzky	A., 169, 205	27, 139
Ethylmethylacetal	$\text{CH}_3\text{CH}(\text{OMe})(\text{OEt})$	$\text{C}_8\text{H}_{12}\text{O}_2$	85	....	Bachmann	A., 218, 38	44, 727
" "	"	"	85	....	Wurtz	A. C. [3], 48, 375	vi., 4
Diethoxymethane	$\text{CH}_2(\text{OEt})_2$	"	87-88	....	Pratesi	G. I., 13, 313	46, 172
" "	"	"	89 (769)	....	Green	C. R., 89, 1077	38, 307

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Amyleneglycol	$\text{CMe}_2(\text{OH}).\text{CHMe}(\text{OH})$	$\text{C}_5\text{H}_{12}\text{O}_2$	176-177	....	Eltekoff	J. R. [1882], 355; B., 16, 396	44, 566
"	"	"	178-179	....	Flavitzky	B., 10, 2240	
"	"	"	177	....	"	B., 9, 1600	
"	"	"	177	Liquid	Wurtz	A. C. [3], 55, 458	i., 208
"	$\text{CHEt}(\text{OH}).\text{CHMe}(\text{OH})$	"	187.5	....	Wagner & Saytzeff	A., 179, 308	29, 547
"	"	"	187-188	....	Eltekoff	J. R. [1882], 335; B., 16, 397	44, 566
"	"	"	188-189	....	Wurtz	....	34, 965
"	?	"	185-190	....	Flavitzky	B., 9, 1600; 11 679	
"	$\text{CHPr}(\text{OH}).\text{CH}_2(\text{OH})$	"	185.3	....	"	B. S. [2], 30, 22	34, 965
"	$\text{CHPr}^\beta(\text{OH}).\text{CH}_2(\text{OH})$	"	200.5-201.5	....	"	B., 11, 992	36, 37
"	"	"	206	....	"	A., 179, 352	
Cantharidin ....	....	"	....	200	....	....	i., 736
Ethylie dimethylic orthoformate	$\text{CH}(\text{OEt})(\text{OMe})_2$	$\text{C}_5\text{H}_{12}\text{O}_3$	115-120	....	Pinner	B., 16, 356	44, 731
" " "	"	"	116-120	....	"	B., 16, 1647	44, 1089
Monethylglycerin	$\text{CH}_2(\text{OEt}).\text{CH}(\text{OH}).\text{CH}_2.\text{OH}$	"	225-230	Liquid	Reboul	As., 1, 239	ii., 883
Tetraethylie orthocarbonate	Et_4CO_4	$\text{C}_8\text{H}_{20}\text{O}_4$	158-160	Liquid	Bassett	17, 198	iv., 237
Phenylene oxide	$\text{C}_6\text{H}_4:\text{O}$	$\text{C}_6\text{H}_4\text{O}$	....	103	Marcker	A., 124, 249	v., 161
" " ....	"	"	....	156	Limpricht	....	44, 664
Phenoic acid ....	....	$\text{C}_6\text{H}_4\text{O}_2$	....	abt. 60	....	....	iv., 388
Collinic acid	$\text{C}_5\text{H}_3.\text{COOH}$	"	....	100+	Fröhde	J. p., 80, 344	i., 1083
Quinone	$\text{C}_6\text{H}_4:\text{O}_2=1.4$	"	....	100	Woskresensky	A., 37, 168	v., 27
" ....	" "	"	....	111	Ador and v. Meyer	B., 4, 9	24, 379
" ....	" "	"	....	115	" "	"	"
" ....	" "	"	....	115	" "	A., 159, 1	24, 826
" ....	" "	"	....	115.2	Hesse	A., 14, 299	v., 27
" ....	" "	"	....	115.7	"	"	"
Umbelliferone ....	....	"	....	240	....	....	v., 939
Raffinose ....	....	$\text{C}_6\text{H}_4\text{O}_7$ (?)	....	80 s. t.	Loiseau	C. R., 82, 1058	30, 398
Ethylene tetracarboxylic acid	$(\text{COOH})_2\text{C}:\text{C}(\text{COOH})_2$	$\text{C}_6\text{H}_4\text{O}_8$	328 p. d.	57	Conrad	B., 13, 2161	40, 169
Phenol....	$\text{C}_6\text{H}_5.\text{OH}$	$\text{C}_6\text{H}_6\text{O}$	178-180	....	Gladstone and Tribe	41, 6	
"	"	"	180	....	J. Williams	C. C. [1873], 167	27, 583
"	"	"	188-190(762)	....	Landolt	G. J. C., 1864	
"	"	"	183.3-184.1	....	Adrienz	G. J. C., 1873	
"	"	"	180	....	Ramsay	....	39, 64
"	"	"	181.5	....	Dale & Schorlemmer	....	35, 148
"	"	"	181.5	....	Schorlemmer	....	28, 209
"	"	"	182	....	Allen	An. [1878], 319	36, 182
"	"	"	183	....	Lincke	J. p. [2], 8, 43	27, 373
"	"	"	184	....	Serugham	7, 232	iv., 389
"	"	"	184	....	Jones	....	33, 181
"	"	"	184	42	Dale & Schorlemmer	....	26, 441
"	"	"	186	....	Ramsay	....	35, 469
"	"	"	187-188	34-35	Laurent	A. C. [3], 3, 195	iv., 389
"	"	"	181-182	....	Sarauw	B., 14, 2444	42, 507
" (from tar)	"	"	182.1	38-40	Ladenburg	B., 7 1687	
" (from paroxybenzoic acid)	"	"	182.1	38-40	"	"	
" (from salicylic acid)....	"	"	182.1	39	"	"	
" (from oxybenzoic acid)	"	"	182.3-182.5	39.5	"	"	
" ....	"	"	....	41	Schiff	A., 223, 247; G. I., 14, 181	46, 1089
"	"	"	183	37.5	Græbe	....
" ....	"	"	....	36	Zotta	A., 174, 87	
"	"	"	180-180.5	40-41	Hamberg	B., 4, 751	
"	"	"	186-187	....	Church	....	16, 76
"	"	"	187	s. -18	Duclos	A., 109, 135	
"	"	"	187.6-188.1 (747)	....	Kopp	A.	
"	"	"	197.5	....	Runge	P. A., 32, 308	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Phenol	For tension table	C_6H_6O	See Part III.				
„ (hydrate)	$C_6H_5.OH + nH_2O$	„	....	37	Alexejeff	B. S. [2], 35, 379	40, 723
„ „	$(C_6H_5.OH)_2.H_2O$	„	....	16	Calvert	18, 66	iv., 389
Resorcinol	$C_6H_4.(OH)_2 = 1.3$	$C_6H_6O_2$	266-267	98-99	Kopp	B., 6, 447	26, 900; vii., 1040
„	„ „	„				
„	„ „	„	271	99	Hlasiwetz & Barth	A., 130, 356	iv., 215
„ ....	„ „	„	....	99	Petersen	B., 6, 378	26, 1133
„ ....	„ „	„	....	102	Wurster & Nölting	B., 7, 906	
„	„ „	„	270-275	104	Oppenheim & Vogt	As. 6, 376	
„	„ „	„	270	....	Troost	G. J. C., 1879	
„ ....	„ „	„	....	105	Ador and Meyer	B., 4, 8	24, 378
„ ....	„ „	„	....	105	Cross and Bevan	....	41, 112
„ ....	„ „	„	....	109	Barth and Schreder	G. J. C., 1879	
„ ....	„ „	„	....	110	Schiff	A., 223, 247	46, 1089
„ ....	„ „	„	....	110	Fittig and Mager	B., 7, 1178; G. I., 4, 305	28, 147; 29, 235
„ ....	„ „	„	....	110	Bantlin	G. J. C., 1878	
„ ....	„ „	„	....	118	Calderon	C. R., 84, 779	32, 474
Pyrocatechol	=1.2	„	....	100 u. c.	Lautemann	A., 120, 311	
„ ....	„ „	„	....	100	Miller	....	41, 399
„	„ „	„	245	101-102	Beckett and Wright	....	29, 285, 286
„ ....	„ „	„	....	102	Fittig and Remsen	A., 159, 129	24, 938
„ ....	„ „	„	....	102-102.5	Beckett and Wright	....	29, 303
„ ....	„ „	„	....	102-103	Miller	....	41, 407
„ ....	„ „	„	....	102	Etti	B., 11, 1881	
„	„ „	„	245.5	104	Fittig and Mager	G. J. C., 1875	
„	„ „	„	240-245	105	Arata	A. S. C. A., 1878	34, 986
„	„ „	„	240-245	111	Buchner	J. p., 96, 186	iv., 316
„ ....	„ „	„	....	111-112	....	A., 159, 129	24, 938
„ ....	„ „	„	....	111-112	Eissfeldt	J. p., 92, 101	iv., 316
„ ....	„ „	„	....	112	Petersen	B., 6, 368	26, 1133
„ ....	„ „	„	....	112	Tiemann	B., 7, 618	29, 235
„ ....	„ „	„	....	110-115	....	....	iv., 316
„ ....	„ „	„	....	116	Zwenger	A., 37, 327	„
„	„ „	„	240-250	....	Wagner	J. p., 52, 450	„
Quinol	=1.4	„	....	160	Prunier	A. C. [5], 15, 5	36, 240
„ ....	„ „	„	....	165	Körner	G. J. C., 1866	
„ ....	„ „	„	....	165	Wichelhaus	B., 5, 250	
„ ....	„ „	„	....	169	Herrmann	G. J. C., 1877	
„ ....	„ „	„	....	169	Miller	....	41, 405
„ ....	„ „	„	....	168-169 u. c.	Hesse	A., 200, 232	36, 317
„ ....	„ „	„	....	169	Hlasiwetz	B., 8, 684	26, 1191; 29, 235
„ ....	„ „	„	....	169 u. c.	Hlasiwetz and Habermann	A., 177, 339	29, 79
„ ....	„ „	„	....	169 u. c.	„ „	A., 180, 343	30, 83
„ ....	„ „	„	....	169	„ „	A., 175, 62	26, 572
„ ....	„ „	„	....	171	Bernheimer	M. C., 1, 456	42, 232
„ ....	„ „	„	....	172-173 u. c.; =177.1-177.5 c.	Hesse	B., 5, 1027	26, 388
„ ....	„ „	„	....	177.5	„	A., 110, 358; 114, 301	iii., 213
„ ....	„ „	„	....	178	Petersen	B., 6, 378	26, 1133
Pyrocinchonic anhydride	$Me.C : CMe.CO.O.CO$	$C_6H_6O_3$	212-215 u. c.	90	Weidel and Schmidt	B., 12, 1151	36, 947
„ „ ....	„	„	....	94-97	Hoogewerff and v. Dorp	B., 13, 63	36, 406
„ „ ....	„	„	....	94.2; 95.1 a.s.	Weidel and Brix	M. C., 3, 608	42, 1304
„ „	„	„	223	96	Roser	B., 15, 293, 1319	42, 1114
Pyrogallol	$C_6H_3(OH)_3 = 1.2.3$	„	210	115	Pelouse	A., 9, —	iv., 758
„ ....	„ „	„	....	115	Petersen and Bahr	G. J. C., 1871	
„ ....	„ „	„	....	118	Textbooks	B., 11, 1882	36, 160

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hydroxyquinol	$C_6H_3(OH)_3=1.2.4$	$C_6H_6O_3$	....	131	Etti	B., 11, 1882	36, 160
" ....	" "	"	....	131.5	Stenhouse	A., 179, 236	"
" ....	" "	"	....	131.5	Stenhouse and Groves	....	26, 705
" ....	" "	"	....	132-133	Barth and Schreder	M. C., 4, 176	44, 987
Querciglucinol	$3C_6H_6O_3.2H_2O$	"	....	174	Ganteer	B. S. [2], 33, 583	40, 272
Phenolglucinol	$C_6H_6O_3.2H_2O$	"	....	200.5	"	B. S. [2], 33, 585	"
Enoglucinol ....	"	"	....	208.5	"	B. S. [2], 33, 584	"
Phloroglucinol	$C_6H_3(OH)_3=1.3.5$	"	....	206	Barth and Schreder	B., 12, 419	36, 633
" ....	" "	"	....	209	Tiemann and Will	B., 14, 954	"
" ....	" "	"	....	220	Hlasiwetz	A., 96, 118	36, 633; iv., 495
Dimethylic acetylene dicarboxylate	$COOMe.C:C.COOMe$	$C_6H_6O_4$	195-198	....	Bandrowski	B., 15, 2694	44, 313
Methylic aconate	$CO.O.CH:C.CH_2.COOMe$	"	....	85	Meilly	B., 6, 242	vii., 22; 26, 875
" " ....	" "	"	....	85	"	A., 171, 163	27, 788
Muconic acid ....	....	"	....	100-125	Limpricht	A., 165, 274	vii., 827; 26, 623
Acetomalic anhydride	$CH(OAc).CH_2.CO.O.CO$	$C_6H_6O_5$	160-162 (14)	53-54	Anschütz	B., 14, 2791	42, 831
Acid from dehydromucic acid	....	"	....	146	Seelig	B., 12, 1088	36, 784
? Acid ....	....	"	....	173	"	"	"
Aconitic acid	$CH(COOH):C(COOH).CH_2(COOH)$	$C_6H_6O_6$	....	139-141	Hunäus	B., 9, 1751	"
" "	$C_3H_3(COOH)_3$	"	....	160	....	....	i., 54
" " ....	"	"	....	186-187	....	A. C. J., 4, 39; C. R., 94, 455	"
Trimethylene tricarboxylic acid	$CH(COOH).CH_2.C(COOH)_2$	"	....	184 d.	Conrad & Guthzeit	B., 17, 1187	46, 992
Helenin ....	....	C_6H_8O	....	109-110	Kallen	B., 6, 1507	27, 352
From aldehyde	$3C_2H_4O-2H_2O$	"	172	Solid	Kekulé	A., 162, 105	vii., 35; 25, 617
Allylic acrylate	$CH_2:CH.CO.O.CH_2.CH:CH_2$	$C_6H_8O_2$	119-124	....	....	A., 167, 250	"
Terelactone ....	....	"	210 c.	10-12	Geisler	A., 208, 49	42, 42
?-acid	From pyrotarebic acid	"	....	93-96	Mulck	A., 180, 56	29, 924
Sorbic acid	$CH_2.CH.CH(COOH)CH:CH_2$	"	begins 225 p.d. abt. 228	132-134	Fittig and Barringer	A., 161, 307	vii., 1091; 25, 486, 487
" " ....	"	"	....	134.5	Hofmann	12, 46	v., 352
Parasorbic acid ....	....	"	221 (755)	Liquid	"	12, 44	v., 352
From diethylic succinosuccinate	....	"	....	170 d.	Herrmann	A., 211, 324	42, 713
Tetrahydroquinone ....	....	"	....	75	....	A., 211, 322	"
Aloisol ....	....	$C_6H_8O_3 (?)$	130	Liquid	Robiquet	J. p. [3], 10, 167, 241	i., 148
Oxysorbic acid ....	....	"	....	abt. 85	Weidel	B., 12, 2002	36, 268
Ethylsuccinosuccinate	identical; see $C_{12}H_{16}O_6$	"	....	126.6	Wedel	A., 219, 71	46, 835
" " ....	" "	"	....	127	Duisberg	B., 16, 134	"
Ethylic hydroxytetrelate ....	" "	"	....	127-127.5	"	B., 15, 1383	42, 1192
Ethylidene diacetic anhydride	$CHMe:(CH_2.CO)_2.O$	"	282-284	Solid	Kommenos	A., 218, 145	46, 422
Ethylsuccinic anhydride (?)	$C_4H_3EtO_3 (?)$	"	s.b. 206	133	Fehling	A., 49, 192	v., 463
Hydroxyglutaric lactone ....	....	$C_6H_6O_4$	....	68-70	Bredt	A., 208, 63	42, 34
Ethylene succinate	$CO.(CH_2)_2.COO.(CH_2)_2.O$	"	212	b. 90	Lourenço	A., 115, 361; J. p. [2], 20, 207	ii., 582; v., 464
Dimethylic fumarate	$C_2H_2(COOMe)_2$	"	....	105-107	....	J. R., 11, 288	"
" "	"	"	192 c.	102	Anschütz	B., 12, 2282	"
Dimethylic maleate	$CH(COOMe)_2:CH(COOMe)_2$	"	205 c.	Liquid	"	B., 12, 2283	"
Lactide	$CHMe.CO.O.CHMe.CO.O$	"	250	107	....	....	iii., 464
" " ....	"	"	....	124.5	....	A., 167, 319	"
" "	"	"	255 u.c. (757)	121	Heury	B., 7, 755	25, 978
Allylmalonic acid	$CH_2:CH.CH_2.CH(COOH)_2$	"	....	103	Conrad and Bischoff	B., 13, 598	38, 628
Tetramethylene dicarboxylic acid	$CH_2:(CH_2)_2:C(COOH)_2$	"	....	155 d.	Perkin	B., 16, 1787	44, 1084

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Homotaconic acid	$\text{CH}(\text{COOH})\cdot\text{CH}_2$ $\text{CH}(\text{COOH})\cdot\text{CH}_2$	$\text{C}_6\text{H}_8\text{O}_4$	....	170-171	Krestownikoff	B. S. [2], 35, 558	40, 801
" " ....	"	"	....	170-171	Markownikoff and Krestownikoff	B., 12, 1489	38, 238
Hydromneonic acid	$\text{C}_4\text{H}_6(\text{COOH})_2$	"	....	195	Bode	A., 132, 98	v., 1093
" " ....	"	"	....	195	Limpricht	A., 165, 262	vii., 827
β -Methylethenyltricarboxylic acid	$\text{CHMe}(\text{COOH})\cdot\text{CH}(\text{COOH})_2$	$\text{C}_6\text{H}_8\text{O}_6$	....	142 d.	Bischoff & Guthzeit	B., 14, 615	
" " ....	"	"	....	146	Bischoff	B., 15, 1109; A., 214, 53	42, 1188; 44, 45
Tricarballic acid	$\text{COOH}\cdot\text{CH}(\text{CH}_2\text{COOH})_2$	"	....	158	"	B., 13, 2161	42, 1188
" " ....	"	"	....	158	Simpson	18, 331	v., 880
" " ....	"	"	....	158	Miehle	A., 190, 322	34, 491
" " ....	"	"	....	158-159	Claus	B., 5, 361	25, 685
" " ....	"	"	....	158-160	Claus and Lischke	B., 14, 1090	
" " ....	"	"	....	160.6	Lippmann	B., 11, 707	
" " ....	"	"	....	166	"	B., 12, 1650	
" " ....	"	"	....	165-168	Weyr	"	
Glycuronic anhydride	"	"	....	167	Spiegel	B., 15, 1966	
Citric acid	$\text{C}(\text{OH})(\text{CH}_2\text{COOH})_2(\text{COOH})$	$\text{C}_6\text{H}_8\text{O}_7$	....	146-147	Grimaux and Adam	C. R., 90, 1252	38, 802
" " ....	"	"	....	153-154	Kammerer	G. J. C., 1866	
" "	$\text{C}_6\text{H}_8\text{O}_7 + \text{H}_2\text{O}$	....	....	100	"	"	
Allyloxide	$(\text{C}_3\text{H}_5)_2\text{O}$	$\text{C}_6\text{H}_{10}\text{O}$	82	Liquid	Hofmann & Cahours	A., 102, 290	i., 142
" "	"	"	85-87	Liquid	Berthelot & De Luca	A. C. [3], 43, 257	i., 142
Metacetone ....	....	"	83-84	....	Bendikt	A., 162, 303	vii., 1107
" " ....	....	"	84	....	Fremy	A., 15, 281	
" " ....	....	"	84	....	Gottlieb	A., 52, 127	iii., 932
" " ....	....	"	84-86	....	Zeidler	A., 187, 30	32, 437
Dumasin ....	....	"	120	....	Kane	P. A., 44, 494	
" " ....	....	"	120-125	Liquid	Fittig	A., 110, 21	i., 31; ii., 351
" " ....	....	"	120-125	....	Zeidler	A., 187, 30	32, 437
" " ....	....	"	120-130	....	Heintz	P. A., 68, 279	
Allylacetone	$\text{CH}_3\text{CO}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{CH}:\text{CH}_2$	"	128-130	....	Zeidler	A., 187, 35	32, 437
" "	"	"	130	Liquid	"	B., 8, 1035	29, 368
Mesityl oxide ....	....	"	120	Liquid	Kane	P. A., 44, 475	
" "	(?)	"	125-135	....	Breuer and Zincké	B., 13, 638	38, 645
" " ....	....	"	128-130	....	Louise	C. R., 95, 602	44, 176
" " ....	....	"	130	Liquid	Baeyer	A., 140, 297	vi., 822
" " ....	....	"	131 c.	....	Fittig	A., 110, 34	i., 28; iii., 929
" " ....	....	"	131	....	Benedikt	A., 162, 303	vii., 1107
" " ....	....	"	131-132	....	Zeidler	A., 187, 30	32, 437
Ethylisocrotonic aldehyde	....	"	137	....	Lieben and Zeisel	B., 12, 571	36, 615
Methylethylacrolein	$\text{C}_2\text{HMeEt}\cdot\text{CHO}$	"	137.3	....	....	M. C., 4, 10	
" "	"	"	136.7	....	....	M. C., 3, 693	
Valerol ....	....	" (?)	....	20	....	....	v., 981
Resin from larch agaric	....	$(\text{C}_6\text{H}_{10}\text{O})_n$	....	90	Masing	A. P. [3], 6, 111	29, 612
Ethylvinylacetate ....	....	$\text{C}_6\text{H}_{10}\text{O}_2$	110.5-111	....	Nevolé	C. R., 85, 514	32, 867
" " ....	....	"	111	....	Lieben	B. S., 12, 282	32, 868
Propylic acrylate	$\text{CH}_2:\text{CH}\cdot\text{COOPr}$	"	122.9	....	Weger	A., 221, 61	46, 11
Ethyl- β -crotonate	$\text{CH}_2:\text{CH}\cdot\text{CH}_2\cdot\text{COOEt}$	"	136 c.	....	Geuther	J. p. [2], 3, 431	24, 815
Ethyl- α -crotonate	$\text{Me}\cdot\text{CH}:\text{CH}\cdot\text{COOEt}$	"	138.8; 326 c. t.	....	Pawlewski	B., 16, 2633	46, 252
" "	"	"	139.5-141.5	....	Bruhl	B., 14, 2797	42, 827
" "	"	"	138-140 c.	....	Perkin	....	45, 536
" "	"	"	142-143	....	Krämer & Grodzki	B., 11, 1359	
Acid from croton oil ....	....	"	204	....	Berendes	B., 10, 835	32, 593
" " ....	....	"	208	....	....	A., 191, 121	
Hydrosorbic acid	$\text{CH}_2\cdot\text{CH}\cdot\text{CHEt}\cdot\text{COOH}$	"	201;	l. — 18	Fittig & Barringer	A., 161, 309	vii., 1092; 25, 486
" "	"	"	204-205 c.	Liquid	Mulck	A., 180, 45	29, 924
" "	"	"	208.5	n. f. — 13	Hjelt	B., 15, 618	42, 946
From bromcaproic acid	$\text{C}_5\text{H}_9\cdot\text{COOH}$	"	208-210	— 10	"	"	"

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Pyroterebic acid	$\text{CHMe}_2\text{CH}:\text{CH}.\text{COOH}$	$\text{C}_6\text{H}_{10}\text{O}_2$	1. — 15	Geisler	A., 208, 37	42, 41
" "	"	"	a. 200	...	Rabourdin	A., 52, 395	
" "	"	"	207 c.	5-6	Mulck	A., 180, 45	29, 924
" "	"	"	210	Liquid	Chautard	J., 8, 652	iv., 776
" "	"	"	210	....	Carleton Williams	B., 6, 1095	27, 71
" "	"	"	124-127 (26)	....	Kæner & Menozzi	G. I., 13, 351	46, 425
Methylethylacrylic acid	$\text{CHEt}:\text{CMe}.\text{COOH}$	"	213 c. (750)	24.4	Lieben and Zeisel	M. C., 4, 47	44, 571
Hexylenic acid ....	....	"	....	39	Pinner	B., 10, 1054	32, 587
α -Ethylcrotonic acid	$\text{CH}_3\text{CH}:\text{CEt}.\text{COOH}$	"	....	39-40	Waldschmidt	B., 8, 1037	29, 369
" " ....	"	"	....	39.5	Frankland & Duppa	18, 133	vi., 600
" " ....	"	"	....	41.5	Geuther	B. S. [2], 10, 34	"
Damaluric acid	physical isomers	"	....	39-40	Werner	Z. C. [2], 4, 413	vi., 541
" " ....	"	"	....	50-53	"	"	"
α -Methylvalerolactone	$\text{CH}_2\text{CHMe}.\text{COO}.\text{CHMe}$	"	206	1. — 17	Gottstein	A., 216, 30	44, 454
β - " (impure)	$\text{CHMe}.\text{CH}_2.\text{COO}.\text{CHMe}$	"	205-212	....	"	A., 216, 35	"
Isocapro lactone	$\text{CH}_2\text{CH}_2.\text{COO}.\text{CMe}_2$	"	206	....	Fittig	A., 200, 60	38, 378
" "	"	"	207	7-8	"	A., 208, 111	42, 33
" "	"	"	206-207	....	Bredt	B., 13, 749	
Caprolactone (normal)	$\text{CH}_2\text{CH}_2.\text{COO}.\text{CHEt}$	"	220	Liquid	Fittig	B., 13, 955	38, 799
" "	"	"	220	....	"	A., 208, 67, 111	42, 33
δ - "	$\text{CH}_2\text{CH}_2\text{CH}_2.\text{COO}.\text{CHMe}$	"	230-231	17-19	Wolff	A., 216, 134	44, 455
" " ....	....	"	207-214	....	Hjelt	B., 15, 617	
?-Aldehyde ....	....	"	abt. 220	....	Riban	C. R., 75, 98	25, 810
Saccharone	$\text{Me}.\text{C}_2\text{H}_4.\text{CH}.\text{O}.\text{CO}.\text{CH}_2$	"	203-204 u. c.	Liquid	Scheibler	B., 13, 2217	40, 149
Acropinacone ....	....	"	160-180	Liquid	Linnemann	As., 3, 271	vi., 56
Ethylc epihydrincaroxy late	$\text{O}.\text{CH}_2\text{CH}.\text{CH}_2.\text{COOEt}$	$\text{C}_6\text{H}_{10}\text{O}_3$	145-150	....	Kelly	B., 11, 2226	36, 306
Aldol monoacetate	$\text{CH}_3\text{CH}(\text{OAc}).\text{CH}_2.\text{CHO}$	"	100-110 (20)	Liquid	Wurtz	C. R., 74, 1361	25, 809; vii., 39
Propionic anhydride	$(\text{CH}_3\text{CH}_2.\text{CO})_2\text{O}$	"	168-169	Liquid	Perkin	J. [1875], 520	28, 11
" "	"	"	165	....	Limpricht & Uslar	A., 94, 322	
" "	"	"	164-166	....	Linnemann	J., 21, 433	
Glyceric ether	$\text{C}_3\text{H}_5:\text{O}_3:\text{C}_3\text{H}_5$	"	169-171	Liquid	Silva	C. R., 93, 418	40, 1123
" "	"	"	170-172	....	Gegerfelt	B., 4, 920	25, 134; vii., 565
" "	"	"	169-173	....	Linnemann & Zotta	As., 8, 258	25, 134; vii., 565
" "	"	"	169-172	....	Tollens	B., 5, 68	25, 398
" "	"	"	171-172	Liquid	Zotta	A., 174, 90	28, 246
" "	"	"	170-173	....	Tollens and Loe	B., 14, 1946	42, 31
Methylc methylacetoacetate	$\text{CHMeAc}.\text{COOMe}$	"	177.4 c.	....	Brandes	J. Z., 3, 25	vi., 829
Ethylc acetoacetate	$\text{CH}_2\text{Ac}.\text{COOEt}$	"	179-182	....	Mixter	B., 7, 499	27, 785
" "	"	"	180-181	....	Oppenheim and Precht	B., 9, 318	30, 69
" "	"	"	180.6-181.2 (754)	....	Brühl	G. J. C., 1880	
" "	"	"	180.6	Liquid	Geuther	J. [1865], 304	vi., 16
" "	"	"	180-182 c. (760); 152.5-153.3 c. (330)	....	Perkin	....	45, 493
Methylc β -acetopropionate	$\text{CH}_2\text{Ac}.\text{CH}_2.\text{COOMe}$	"	191-191.5 (743)	....	Grote, Kehrler, and Tollens	A., 206, 220	40, 410
β -aceto-butyric acid	$\text{CH}_3\text{CHAc}.\text{CH}_2.\text{COOH}$	"	241-242	....	Bischoff	A., 206, 332	40, 413
α -methyl β -acetopropionic acid	$\text{CH}_2\text{Ac}.\text{CHMe}.\text{COOH}$	"	247-248	Liquid	"	A., 206, 322	40, 412
γ -acetobutyric acid	$\text{CH}_2\text{Ac}.\text{CH}_2\text{CH}_2.\text{COOH}$	"	274-275	13	Wolff	A., 216, 129	44, 455
" " + H_2O} ....	"	"	....	36	"	"	"
β -ethxycrotonic acid ....	....	"	....	137	Friedrich	A., 219, 322	44, 968
β- " " ....	....	"	....	137.5	"	B., 15, 218	42, 945
Hydroxyhexinic acid ....	....	"	....	92-93	....	A. C. [5], 20, 491	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isohydroxyhexinic acid ....	....	$C_6H_{10}O_3$	....	112.5-113	....	A. C. [5], 20, 491	
Ethylidene diacetate....	$CH_3CH(OAc)_2$	$C_6H_{10}O_4$	165-168	....	Schiff	B., 9, 306	
" "	"	"	167 (744)	....	Franchimont	R. T., 1, 243	44, 452
" "	"	"	168.8 c.	Liquid	Geuther	A., 106, 249	i., 108
Ethylene diacetate	$CH_2(OAc).CH_2(OAc)$	"	186-187	Liquid	Wurtz	A. C. [3], 55, 433	ii., 567
" "	"	"	190-190.5 c.	....	Perkin	....	45, 505
Ethyl acetoglycollate	$CH_2(OAc).CH_2.COOEt$	"	179	Liquid	Heintz	A., 123, 325	ii., 917
Butyroglycollic acid	$CH_2O(C_4H_7O).COOH$	"	205-207	Liquid	Gal	B. S. [2], 7, 329	vi., 641
Diethyl oxalate	$COOEt.COOEt$	"	185 c.	....	Perkin	....	45, 508
" "	"	"	183-184	Liquid	Dumas and Boullay	J. P., 14, 113	iv., 269
" "	"	"	186	Liquid	Kekulé	Lehrbuch, 2, 15	"
" "	"	"	87-88 (16)	....	Anschütz	B., 16, 2413	
" "	"	"	186	....	Delffs	J., 7, 26	
" "	"	"	186	....	Weger	A., 221, 61	46, 11
" "	"	"	186	....	Kopp	A.	
" "	"	"	184.8 (725)	....	"	G. J. C., 1855	
" "	"	"	184 (741)	....	Brühl	A., 203, 27	
Dimethyl succinate	$COOMe.CH_2CH_2.COOMe$	"	195.2	....	Weger	A., 221, 61	46, 11
" "	"	"	195.25 c.	18.5	Perkin	....	45, 516
" "	"	"	198	20	Fehling	A., 49, 195	v., 463
Isopropylmalonic acid	$CHPr^{\beta}(COOH)_2$	"	....	83	Conrad and Bischoff	B., 13, 595	38, 627
" " ....	"	"	....	87-91	Weidel and Brix	M. C., 3, 603	42, 1305
Propylmalonic acid	$CHPr^{\alpha}(COOH)_2$	"	....	96	" "	"	"
" " ....	"	"	....	96	Tate and Rodno	I. D. Wurzburg, 1879	
Ethylmethylmalonic acid	$CEtMe(COOH)_2$	"	....	118	Conrad and Bischoff	B., 13, 595	38, 628
" " ....	"	"	....	118	Weidel and Brix	M. C., 3, 603	42, 1305
" " ....	"	"	....	121	" "	M. C., 3, 620	"
Dimethylsuccinic acid	$COOH.CH_2.CMe_2.COOH$	"	....	74	Tate	I. D. Wurzburg, 1879	
" " ....	"	"	....	74	Weidel and Brix	M. C., 3, 603	42, 1305
" " ....	"	"	....	140	Pinner	B., 15, 582	42, 942
" " ....	"	"	....	142-143	....	A., 217, 141	
" " ....	(?)	"	....	190 d.	Roser	B., 15, 2013	
" "	$COOH.CHMe.CHMe.COOH$	"	....	165-167	Hardtmuth	A., 192, 142	34, 782
" " ....	"	"	....	165-167	Weidel and Brix	M. C., 3, 603	42, 1305
" " ....	"	"	....	170	Markownikoff and Krestownikoff	A., 208, 333	40, 1127
" " ....	"	"	....	189 ; 186.5 a. s.	Weidel and Brix	M. C., 3, 612	42, 1305
" " ....	"	"	....	192	Meyer	J. p. [2], 26, 360	44, 353
Ethylsuccinic acid	$COOH.CHEt.CH_2.COOH$	"	....	98	Huggenberg	A., 192, 149	34, 782
" " ....	"	"	....	98	Thorne	....	39, 339
" " ....	"	"	....	98	"	....	39, 342
" " ....	"	"	....	98	Weidel and Brix	M. C., 3, 603	42, 1305
α -methylglutaric acid	$COOH.CHMe.(CH_2)_2.COOH$	"	....	76	Wislicenus and Limpach	A., 192, 134	34, 784
" " ....	"	"	....	76	Weidel and Brix	M. C., 3, 603	42, 1305
β - " "	$COOH.CH_2.CHMe.CH_2.COOH$	"	....	85	Kommenos	A., 218, 145	46, 422
β- " " ....	"	"	....	135-140	Weidel and Brix	M. C., 3, 603	42, 1305
Adipic acid	$COOH.(CH_2)_4.COOH$	"	....	145	Bromeis	A., 35, 106	
" " ....	"	"	....	148	Arppe	J. [1864], 377	vi., 58
" " ....	"	"	....	148	Ballo	B., 14, 332	
" " ....	"	"	....	148	Baeyer	B., 10, 1286	34, 4
" " ....	"	"	....	148-149	Weidel and Brix	M. C., 3, 603	42, 1305
" " ....	"	"	....	148-149	Motte	B., 12, 1572	38, 36
" "	$+ \frac{1}{2}H_2O$	"	....	140	Wirz	A., 104, 257	i., 58
Mannitol anhydride	$C_6H_8O_2(OH)_2$	"	274 (760) p.d.; 176 (30)	87	Fanconnier	C. R., 95, 991 ; B. C. [1883], 789	44, 306 ; 46, 573
(?) acid ....	....	"	143; 147-148	....	Ladenburg	B., 15, 1028	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethoxysuccinic acid	COOH.CH ₂ .CH(OEt).COOH	C ₆ H ₁₀ O ₅	....	86	Purdie	....	39, 348
" " ....	"	"	....	86	"	....	39, 350
Ethylenesuccinic acid	HO.(CH ₂) ₂ .O.CO(CH ₂) ₂ .COOH	"	....	b. 100	Lourenço	A., 115, 359	ii., 582; v., 464
Ethylidiglycollate	COOH.CH ₂ .O.CH ₂ .COOEt	"	240	Liquid	Heintz	A., 144, 95	vi., 642
Pyruvin	C ₃ H ₃ (OH) ₂ (OC ₃ H ₃ O ₂)	"	242 d.	78	Schlagdenhauffen	B. S. [2], 17, 301	25, 1000
Maltic acid ....	....	"	....	95	Cuisnier and Kilani	B. C. [1882], 703	44, 42
Inulin ....	....	"	....	a. 100	Braconnot	....	iii., 278
Inuloid ....	....	"	....	130-135	Popp	Z. C. [2], 7, 88	24, 348
Saccharin	From milk sugar	"	....	142; s f. 135; 141-142 a.f.	Kiliani	B., 15, 701, 295, 3; 16, 2625	46, 283
" "	CH ₂ OH(CH.OH) ₂ .CH.CH ₂ .CO.CO	"	....	160-161	Scheibler	B., 13, 2212	40, 149
Levulan (—) ....	....	"	....	250	Lippmann	B., 14, 1512	40, 888
Dimethylicdextrotartrate(+)	C ₂ H ₂ (OH) ₂ (COOMe) ₂	C ₆ H ₁₀ O ₆	163 (23); 280 (760)	48	Anschütz & Pictet	B., 13, 1176, 1538	38, 876
Dimethylracemate(inactive)	"	"	282 (700)	85	" "	B., 13, 1178	"
Ethyltartaric acid	C ₄ H ₄ O ₂ (COOH) ₂	"	....	90	....	A., 22, 238; J. R., 7, 150	"
Isodiglycolethylene acid ....	....	"	....	b. 100	Barth & Hlasiwetz	A., 122, 96	iii., 414
Succinopropionic acid ....	....	"	....	139	Hermann	A., 211, 306	42, 713
Hydrocitric acid ....	....	C ₆ H ₁₀ O ₇	....	100	Kammerer	Z. C. [2], 2, 709	vi., 473
Isosaccharic acid ....	....	C ₆ H ₁₀ O ₈	....	185	Tiemann	B., 17, 241	46, 725
Isodulcitic acid ....	....	C ₆ H ₁₀ O ₉	....	100	Malin	A., 145, 197	vi., 759
Gummic acid ....	....	C ₆ H ₁₀ O ₁₀	....	150 d.	....	....	ii., 956
Ethylisocrotyl oxide	CMe ₂ :CH.OEt	C ₆ H ₁₂ O.	92-94	....	Butlerow	C. C. [1871], 89	24, 215
" "	"	"	92-94	....	"	Z. C. [2], 6, 524	vii., 401
Hexylene pseudoxide ....	....	"	93	....	....	Z. C. [1871], 36	"
Tetramethylethylene oxide	CMe ₂ —CMe ₂ .O	"	95-96	....	Eltekoff	J. R. [1882], 355	44, 567
Methylpropylethylene oxide	CHPr—CHMe.O	"	109-110	....	"	B., 16, 398	"
Hexylene oxide (normal)	C ₆ H ₁₂ :O	"	115	....	....	J. [1864], 516	vi., 700
Diisopropylene oxide ....	....	"	185	....	....	B. S., 19, 147	"
Diallyl monohydrate	C ₆ H ₁₀ .H ₂ O	"	92-95	Liquid	Wurtz	A. C. [4], 3, 172	vi., 93
" "	CH ₃ .CH(OH).(CH ₂) ₂ .CH:CH ₂	"	138-139	....	....	Crow	38, 53
" "	C ₆ H ₁₁ OH + H ₂ O	"	130-140	Liquid	Wurtz	A. C. [4], 3, 172	vi., 93
" "	"	"	140	Liquid	"	"	"
Dimethylallyl carbinol	(CH ₂ :CH.CH ₂)CMe ₂ .OH	"	119	....	M. and A. Saytzeff	B., 9, 33	29, 694
" "	"	"	119.5 c.	....	" "	A., 185, 151	32, 298
" " (hydrate)	"	"	116-117	....	" "	"	"
Dimethylisoallyl carbinol ....	....	"	110-115	....	....	J. [1872], 349	"
Hexylene alcohol ....	....	"	137	Liquid	Destrem	B., 16, 228	"
Methylpropylacetic aldehyde	CHMePr ^a .CHO	"	116	....	....	M. C., 4, 24, 40	"
Isobutylacetic aldehyde	CHMe ₂ .CH ₂ .CH ₂ .CHO.	"	121 (743)	....	Rossi	A., 133, 179	vi., 395
Hexyl aldehyde (β)	C ₆ H ₁₁ .CHO	"	127 (761.2)	....	Wanklyn and Er-lenmeyer	16, 307, 522	iii., 153
" "	CH ₃ .(CH ₂) ₄ .CHO.	"	127.9 (737.6)	Liquid	Lieben & Janeczek	A., 187, 130	32, 880
Methylpseudobutyl ketone	CMe ₃ .CO.Me	"	105.5-106.5	....	Butlerow	B., 7, 729	27, 1081
" "	"	"	106	....	"	A., 174, 127	"
" "	"	"	105	Liquid	Fittig	A., 114, 57	iv., 647
" "	"	"	105-107	....	Kaschirski	C. C. [1881], 278	42, 37
" "	"	"	105-106	Liquid	Barbaglia & Gucci	B., 13, 1572	"
Methyl β-butyl ketone	CHMeEt.CO.Me	"	118	Liquid	Wislicenus	A., 219, 307	44, 966
Methylisobutyl ketone	CHMe ₂ .CH ₂ .CO.Me	"	114	....	Frankland & Duppa	J., 20, 395	"
" "	"	"	114	....	Schmidt	B. S., 18, 321	"
" "	"	"	120	Liquid	Williamson	A., 81, 81	v., 974
Methylbutyl ketone	CH ₃ .CO.CH ₂ .CH ₂ .CH ₂ Me	"	124-126	....	Morgan	....	28, 303
" "	"	"	127	....	Wanklyn and Er-lenmeyer	A., 135, 144	vi., 768
" "	"	"	128	....	Friedel	A., 108, 125	iii., 1002

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylbutyl ketone	$\text{CH}_3\text{CO.CH}_2\text{CH}_2\text{CH}_2\text{Me}$	$\text{C}_6\text{H}_{12}\text{O}$	126-128	....	Schorlemmer	P. T. [1872], 111	vii., 645 ; 25, 1085
Ethylisopropyl ketone	$\text{Pr}^\beta.\text{CO.Et}$	"	115	....	Butlerow	A., 144, 1	vi., 969
" "	"	"	117-119	....	Pawlow	B., 9, 1311	31, 58
Ethylpropyl ketone	$\text{Pr}^\alpha.\text{CO.Et}$	"	122-124	Liquid	Coninck	C. R., 82, 92	29, 694
" " ....	....	"	122-124	....	Völker	B., 8, 1019	
" " ....	....	"	122-124	....	Oechsner	B. S. [2], 24, 99	30, 67
" " ....	....	"	122-125	Liquid	Butlerow	B. S. [2], 5, 17	vii., 1022
" " ....	....	"	122-125	....	Popoff	A., 161, 289	
" " ....	....	"	121-124	....	Morgan	....	28, 302
Hexylene ketone ....	....	"	125 (753)	Liquid	Henry	C. R., 97, 260	46, 34
? ketone ....	....	"	123-125	....	Destrem	B., 16, 228	
Action of CaO on glycerol ....	....	"	160	....	Tawildaroff	B., 12, 1487	38, 235
" " ....	....	"	180-185	....	Fittig	J., 13, 319	
" " ....	....	"	244-245	....	Renesse	A., 166, 80	26, 642
" " ....	....	$(\text{C}_6\text{H}_{12}\text{O})_n$	205	....	....	M. C., 4, 25	
From wax of ficus gummiiflua	....	"	345-354	62	Kessel	B., 11, 2114	36, 262
Diacetonic alcohol	$\text{CH}_2\text{Ac.CMe}_2\text{OH}$	$\text{C}_6\text{H}_{12}\text{O}_2$	163.5-164.5	Liquid	Heintz	A., 178, 342	29, 365
Diisoallyl alcohol	$\text{CH}_2\text{CHOH}(\text{CH}_2)_2$	"	218-225, <i>p.d.</i>	Liquid	Hübner & Müller	A., 159, 186, 384	vii., 48 ; 24, 906
" "	CHOH.CH_2	"	220-230	....	Claus and Stein	B., 10, 558	
Amylic formate	$\text{H.COO}(\text{C}_5\text{H}_{11})$	"	112	....	Kopp	A., 96	
" "	"	"	114	....	Delffs	J., 7, 26	
" "	"	"	116	Liquid	Kopp	A., 55, 183	ii., 693
" "	"	"	123.3	....	Elsasser	A., 218, 302	44, 967
" " (iso)	"	"	121.8 ; 304.6 c.t.	....	Pawlewski	B., 15, 2463	44, 276
Butylic acetate	$\text{CH}_3\text{COO}(\text{CH}_2)_2\text{Me}$	"	125.1 (740)	Liquid	Lieben and Rossi	A., 158, 168	24, 521 ; vii., 216
" "	"	"	124.36	....	Linnemann	A., 161, 193	25, 396 ; vii., 203, 216
" "	"	"	123.7 ; 305.9 c.t.	....	Pawlewski	B., 15, 2463	44, 276
Iso-butylic acetate	$\text{CH}_3\text{COO.CH}_2\text{CHMe}_2$	"	117.5	....	Chapman & Smith	22, 160	
" "	"	"	116.3	....	Elsasser	A., 218, 302	44, 967
" "	"	"	114.6 ; 295.8 c.t.	....	Pawlewski	B., 15, 2463	44, 276
" "	"	"	117 c.	....	Perkin	....	45, 495
" "	"	"	116.5 (764)	....	Pierre and Puchot	C. R., 75, 1594 ; A. C., 22, 322	26, 260
" "	"	"	114	Liquid	Wurtz	A., 93, 121	v., 732
" "	"	"	113-115 (736)	....	Linnemann	A., 162, 12	25, 475
" "	"	"	113	....	Hodgkinson	37, 485	
" "	"	"	116.3 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	111-113	Liquid	Luynes	J., 16, 501	v., 732
Butylic acetate	$\text{CH}_3\text{COO.CHMeEt}$	"	111-112.5	....	Ressel	A., 175, 44	28, 554
" "	"	"	110-113	....	Saytzeff	J. p., 3, 88 ; 6, 327	vii., 219 ; 24, 526
" "	"	"	111	....	Lieben	J., 21, 443	
" "	"	"	abt. 110	....	Wurtz	Z. C. [2], 5, 407	vi., 377
" "	$\text{CH}_3\text{COO.CMe}_3$	"	93-96	....	Butlerow	A., 144, 7	vi., 375
Propylic propionate	$\text{CH}_3\text{CH}_2\text{COO.Pr}^\alpha$	"	124.3 (760)	Liquid	Pierre and Puchot	J. Ph. [4], 13, 369	vi., 964 ; 24, 903
" "	"	"	124.75	....	" "	C. R., 75, 1594	26, 260
" "	"	"	123.5-125	....	" "	A. C. [4], 22, 293	
" "	"	"	122.44	....	Linnemann	A., 161, 31 ; 162, 39	vii., 203, 1013 ; 25, 235
" "	"	"	122.2 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	122.2	....	Elsasser	A., 218, 302	44, 967
" "	"	"	122.3 ; 304.8 c.t.	....	Pawlewski	B., 15, 2463	44, 276
" "	"	"	122-123 c.	....	Perkin	....	45, 497

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts Dict. & J. Ch. Soc.
Propylic propionate	$\text{CH}_3\text{CH}_2\text{COO.Pr}^a$	$\text{C}_6\text{H}_{12}\text{O}_2$	118-120	....	Chancel	C. R., 68	vi., 964
Isopropylic propionate	$\text{CH}_3\text{CH}_2\text{COOPr}^b$	"	109.5-110.5 c.	....	Perkin	....	45, 498
" "	"	"	109-111	....	....	M. C., 2, 688	
Ethylic butyrate	$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOEt}$	"	121.09 c.	....	Linnemann	A., 160, 210	
" "	"	"	121.07 c.	....	"	A., 162, 39	vii., 203
" "	"	"	121.07 c.	....	Linnemann & Zotta	A., 161, 178	vii., 225 ; 25, 403
" "	"	"	121.05 c.	....	" "	"	" "
" "	"	"	121.7 ; 304.3 c.t.	....	Pawlewski	B., 15, 2463	44, 276
" "	"	"	119.9	....	Elsasser	A., 218, 302	44, 967
" "	"	"	114.1-121.1	....	Zander	A., 214, 185	
" "	"	"	121-121.5 c.	....	Perkin	....	45, 499
" "	"	"	119 (746.5)	Liquid	Pierre	C. R., 27, 213 ; P. A., 76, 458	i., 695
" "	"	"	119	....	Frankland & Duppa	J., 18, 306	vi., 378
" iso-butyrate	$\text{CHMe}_2\text{COOEt}$	"	113 (760)	....	Pierre and Puchot	A. C. [4], 28, 366	vii., 226
" "	"	"	113	....	Delffs	J., 7, 26	
" "	"	"	114.8 (760)	....	Kopp	P. A., 72	
" "	"	"	110.1 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	110	....	Pelonze	A., 96	
" "	"	"	110	....	Lerch	A., 96	
" "	"	"	110	Liquid	Morkownikoff	A., 138, 361	vi., 378
" "	"	"	110.1	....	Elsasser	A., 218, 302	44, 967
" "	"	"	108.6 ; 290.4 c. t.	....	Pawlewski	B., 15, 2463	44, 276
" "	"	"	110-110.6 c.	....	Perkin	....	45, 500
Methylic isovalerate	$\text{CHMe}_2\text{CH}_2\text{COOMe}$	"	114-116	....	....	C. R., 94, 1652	
" "	"	"	117 (763.8)	Liquid	Schmidt and Sachtleben	A., 193, 101	36, 139
" "	"	"	117.5	....	Pierre and Puchot	C. R., 76, 1332	vii., 62 ; 26, 1017
" "	"	"	117.25 (755)	....	" "	A. C. [4], 20, 234	vii., 1200
" "	$\text{C}_4\text{H}_9\text{COOMe}$	"	116.2 (760)	Liquid	Kopp	P. A., 72 ; A., 64, 219	v., 979
Methylic valerate	"	"	114-115	....	"	A., 96	
" "	"	"	116.7 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	116.7	....	Elsasser	A., 218, 302	44, 967
Methylic trimethacetate	$\text{Me}_3\text{C.COOMe}$	"	100-102	l. -20	Butlerow	A., 173, 372	28, 250
" "	"	"	100-102	....	"	B., 7, 728	27, 1084
Caproic acid	$\text{CH}_3(\text{CH}_2)_4\text{COOH}$	"	202-209	....	Fehling	A., 53, 406	
" "	"	"	202-209	....	Gmelin	11, 414	i., 743
" "	"	"	204.6-205.6 (759)	....	Lieben and Janecek	A., 187, 126	32, 879
" "	"	"	205 (746)	....	Lieben	A., 170, 89	27, 249
" "	"	"	204.5-205 (761.17 r.)	....	Franchimont and Zincké	B., 4, 825	vii., 646 ; 25, 61
" "	"	"	204.5-205 (738.5)	....	Lieben and Rossi	G. I., 1, 314 ; A., 159, 75	24, 1034 ; vi., 1137 ; vii., 250
" "	"	"	204-206 (755)	....	Schorlemmer	....	27, 1029
" "	"	"	204.5-205 (738.5)	....	Lieben	A., 170, 89	27, 249
" "	"	"	204.5-205 (738.5)	....	Lieben and Janecek	A., 187, 126	32, 879
" "	"	"	204.5-205 (761.2)	....	" "	"	"
" "	"	"	203-207	....	Perkin	43, 58	
" " ....	"	"	....	-2	Freund	J. p. [3], 232	38, 377
" " ....	"	"	....	-2	Baeyer	B., 10, 1287	34, 4
" "	"	"	202-204	....	Cahours and Demarçay	C. R., 89, 331	36, 1036
" "	"	"	200-205	abt. -10	Zincké	A., 152, 20	vi., 395

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Caproic acid	$\text{CH}_3(\text{CH}_2)_4\text{COOH}$	$\text{C}_6\text{H}_{12}\text{O}_2$	204-205	-1.5	Fittig	G. J. C., 1879	
" "	"	"	202-205	....	Fehling	A., 55, —	
" "	"	"	200-205	....	Grillone	A., 165, 127	vii., 251 ; 26, 375
" "	"	"	200-205	....	Schorlemmer	P. T. [1872], 111	25, 1085
" "	"	"	201-204	....	"	"	vii., 645
" "	$\text{C}_6\text{H}_{11}\text{COOH}$	"	198	....	Brazier & Gossleth	J., 3, 398	
" "	"	"	198	s. -9	....	Gm., 11, 414	i., 743
" "	"	"	198	....	Wurtz	J., 10, 351	vi., 1137
" "	"	"	199	....	Landolt	P. A., 117, 353	
" "	$\text{CHMe}_2\text{CH}_2\text{CH}_2\text{COOH}$	"	199-199.5 c.	l. -18	Mulck	A., 180, 57	29, 924
" "	"	"	198.6-199.8	Liquid	Rohn	A., 190, 316	34, 486
" "	"	"	199.7	Liquid	Lieben and Rossi	G. I., 1, 314	24, 1034 ; vi., 1137 ; vii., 250
" "	"	"	195 (746)	....	Rossi	A., 133, 176	vi., 395
" "	$\text{CHMePr}^a\text{COOH}$	"	193-194	....	Liebermann and Scheibler	B., 16, 1823	44, 1078
" "	"	"	193 (748 r.)	Liquid	Saytzeff	B., 11, 512	34, 566
" "	"	"	193-194	Liquid	Kelbe and Warth	B., 15, 308	
" "	CHEt_2COOH	"	194-195	Liquid	Fittig	A., 200, 24	38, 376
" "	"	"	190 (756.5 r.)	Liquid	Saytzeff	B., 11, 511	34, 566
" "	"	"	195-197	Liquid	Schnapp	B., 10, 1954	34, 293
" "	"	"	187-198	....	Sticht	J., 21, 522	
Ethylidimethylacetic acid	$\text{CMe}_2\text{EtCOOH}$	"	187	s. -14	Wischnegradsky	B., 7, 730	27, 1083
" "	"	"	186	....	"	B., 8, 541	28, 878
Paraldehyde	$\text{CHMe.O.CHMe.O.CHMeO}$	$\text{C}_6\text{H}_{12}\text{O}_3$	103.5-103.7 c.	....	Perkin	....	45, 480
"	"	"	124	10-12	Geuther & Cartmell	A., 112, 16	iv., 349 ; vii., 32
" ....	"	"	....	4	....	....	iv., 349
"	"	"	124	10.5	Kekulé and Zincké	A., 162, 125 ; B., 3, 470	25, 13, 493, 560
"	"	"	124	10.5	Geuther	Z. C., 1865, 32	vii., 33
"	"	"	123.2-123.5 (744)	....	Bruhl	A., 203, 26, 44	
"	"	"	123-124	12	Lieben	As., 1, 114	iv., 349
"	"	"	123-125	....	Perkin	....	43, 89
"	"	"	125	Liquid	Weidenbrusch	A., 66, 155	i., 109
"	"	"	125	....	Krömer & Pinner	B., 4, 788	24, 1188
Metaldehyde ....	....	"	....	s. w. m. 120	Fehling	A., 27, 319	i., 109
" ....	....	"	....	s. w. m. 100	Liebig	A., 14, 141, 36, 376	"
" ....	....	"	....	s. w. m. 112-115	Kekulé and Zincké	B., 3, 471	
Methylic isobutylic carbonate	$\text{CO(OMe)(OCH}_2\text{CHMe}_2)$	"	143.6 c.	....	Röse	A., 205, 245	40, 252
Ethylic ethylglycollate	$\text{CH}_2(\text{OEt}).\text{COOEt}$	"	a. 150	....	Henry	B., 4, 707	
" "	"	"	152	....	Fölsing	B., 17, 486	46, 897
" "	"	"	155	....	Norton & Tcherniak	C. R., 87, 30	34, 971
" "	"	"	158.4	....	Schreiner	B., 12, 179 ; A., 197, 8, 21 ; J. p. [2], 22, 353	36, 522 ; 40, 88
Propylic methylglycollate	$\text{CH}_2(\text{OMe}).\text{COOPr}^a$	"	147	....	"	B., 12, 179 ; A., 197, 8, 21	36, 522
Methylic propylglycollate	$\text{CH}_2(\text{OPr}^a).\text{COOMe}$	"	178	....	"	"	"
Ethylic methyl lactate	$\text{CH}_3\text{CH(OMe).COOEt}$	"	135.5	....	"	"	"
Isopropylic lactate	$\text{CH}_3\text{CHOH.COOCHMe}_2$	"	166-168	....	Silva	B. S. [2], 17, 97	vii., 1016 ; 26, 367
Methylic methoxybutyrate	$\text{CH}_3\text{CH}_2\text{CH(OMe).COOMe}$	"	145-155	....	Duvillier	C. R., 88, 598	36, 523
" "	"	"	150-155	....	....	A. C. [5], 17, 557	
Ethylic hydroxyisobutyrate	$\text{Me}_2\text{C(OH).COOEt}$	"	151 c.	....	Schreiner	B., 12, 179 ; A., 136, 12 ; 188, 53	36, 522
" a-hydroxybutyrate	$\text{CH}_3\text{CH}_2\text{CH(OH).COOEt}$	"	167	....	"	B., 12, 179 ; A., 197, 15, 21	"
Ethylene monobutyrate	$\text{HO.CH}_2\text{CH}_2\text{O(C}_4\text{H}_7\text{O)}$	"	abt. 220	....	Lourenço	A., 114, 123	
β-Ethoxybutyric acid	$\text{CH}_3\text{CH(OEt)CH}_2\text{COOH}$	"	213-220	....	Pinner	B., 12, 2058	33, 99

Name.	Constitution.	Formula.	Bolling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethoxyisobutyric acid	$\text{Me}_2\text{C}(\text{OEt}).\text{COOH}$	$\text{C}_6\text{H}_{12}\text{O}_3$	180 (741)	Liquid	Hell & Waldbauer	B., 10, 450	32, 313
Isobutylhydroxyacetic acid	$\text{CHMe}_2\text{CH}_2\text{CH}(\text{OH}).\text{COOH}$	"	....	56	Guthzeit	A., 209, 238	42, 40
" " ....	" "	"	....	54-55	Ley	B., 10, 231	32, 310
Butylhydroxyacetic acid	$\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{OH}).\text{COOH}$	"	....	57	"	"	"
" " ....	"	"	....	60-62	....	J. R., 9, 139; 12, 367	"
Diethylhydroxyacetic acid	$\text{CEt}_2(\text{OH}).\text{COOH}$	"	....	74	....	A., 135, 26; 200, 21	"
" " ....	"	"	....	74.5	....	A., 209, 235	"
" " ....	"	"	....	80	Tiemann & Friedländer	B., 14, 1974	42, 56
Leucic acid ....	....	"	....	73	Waage	A., 118, 295	iii., 575
" " ....	....	"	....	75	Stricker	B., 10, 231	"
" " ....	....	"	....	b. 100	Thudicum	14, 307	iii., 578
Glycerinallynin	$\text{C}_3\text{H}_5(\text{OH})_2(\text{OC}_3\text{H}_5)$	"	225-240	Liquid	Tollens	A., 156, 149; B., 5, 69	vii., 51, 566; 25, 398
Butyric acid	$\text{C}_2\text{H}_5\text{O}_2\text{C}_4\text{H}_8\text{O}_2$	$\text{C}_6\text{H}_{12}\text{O}_4$	120-160	....	Limpricht & Usler	A., 94, 321	i., 688
" "	"	"	140	....	Dumas	C. R., 25, 781	"
Dihydroxycaproic acid	$\text{C}_5\text{H}_9(\text{OH})_2\text{COOH}$	"	....	150.3-151.8	....	M. C., 4, 48, 66, 83	"
Hexerinic acid	Homologue of glyceric acid (?)	"	....	141	Fittig	A., 200, 39	36, 376
Diglycide ....	....	"	245-255	Liquid	Lourenço	C. R., 52, 359	ii., 895
? (sugar ?)	or $\text{C}_{12}\text{H}_{22}\text{O}_8$	"	....	abt. 105	Liebermann & Giesel	B., 16, 935	"
? ....	....	"	....	240	....	J. [1863], 485	"
Isodulcitol (hydrate)	$\text{C}_6\text{H}_{12}\text{O}_6 + \text{H}_2\text{O}$	$\text{C}_6\text{H}_{12}\text{O}_5$	....	105-110 d.	Hlasiwetz and Pfandler	J. [1864], 564	v., 465
Quercite	$\text{C}_6\text{H}_7(\text{OH})_5$	"	....	a. 220	Böttinger	A., 202, 269	"
" ....	"	"	....	225	Prunier	A. C. [5], 15, 5	36, 240
" ....	"	"	....	234	Böttinger	B., 14, 1598	"
" ....	"	"	....	235	Dessaigues	A., 81, 104	v., 6
Lactoglucose	$\text{C}_6\text{H}_7(\text{OH})_5\text{O}$	$\text{C}_5\text{H}_{12}\text{O}_6 (?)$	....	70	Fudakowski	C. C. [1877], 6	32, 877
" (dried at 100°) ....	"	"	....	132-135	"	B., 11, 1069; B. S. [2], 30, 433	34, 777; 36, 137
" (air dried) ....	"	"	....	70-71	"	"	"
Levulose ....	....	"	....	95	Jungfleisch and Lefranc	C. R. 93, 547	42, 158
Paraglucose (hydrate)	$\text{C}_6\text{H}_{12}\text{O}_6 + \text{H}_2\text{O}$	"	....	100 p. d.	Jodin	C. R., 53, 1252	v., 473
Galactose ....	....	"	....	115	Fudakowski	C. C. [1877], 6	32, 877
" (air dried) ....	....	"	....	118-120	"	B. S. [2], 30, 433; B., 11, 1069	36, 137; 34, 777
" (dried at 100°) ....	....	"	....	142-144	"	"	"
Dextroglucose ....	....	"	....	146	Schmidt	I. D., Gottingen, 1861; J. 14, 720	ii., 858
" ....	....	"	....	141-145	Behr	C. N., 2, 179	42, 706
" ....	....	"	....	146	Müller	J. p. [2], 26, 78	42, 1275
" (hydrate)	$\text{C}_6\text{H}_{12}\text{O}_6 + \text{H}_2\text{O}$	"	....	86	Schmidt	G. J. C., 1861	"
Arabinose ....	....	"	....	130	Richter	Tabellen	"
" ....	[+]	"	....	160	....	G. H., 508	"
Pectin sugar ....	....	"	....	160	Scheibler	B., 1, 108	vi., 903
Inosite ....	....	"	....	abt. 210	Scherer	A., 73, 322; 81, 375	iii., 275
" ....	....	"	....	150-160	Vohl	A., 99, 125	"
Dambose ....	....	"	....	212	Girard	C. R., 77, 995	27, 170
Borneodambose ....	....	"	....	220	"	"	"
Phlorose	$\text{C}_6\text{H}_{12}\text{O}_6 + \text{H}_2\text{O}$	"	....	abt. 74	Hesse	A., 192, 173	34, 851
Paraglucose ....	"	"	....	100 p. d.	Jodin	C. R., 53, 1252; 55, 750	i., 473
Dipropylxide	Pr_2O	$\text{C}_6\text{H}_{14}\text{O}$	85-86	....	Chancel	C. R., 68	vi., 964
" ....	"	"	?	....	Zander	A., 214, 163	"
"	"	"	82-86	....	Linnemann	A., 161, 37	vii., 1013; 25, 235
Diisopropylxide	Pr_2O	"	60-62	....	?	A., 126, 306	"
" ....	"	"	?	....	Zander	A., 214, 164	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Butyl ethyl oxide	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OEt}$	$\text{C}_6\text{H}_{14}\text{O}$	91.5-92.5	....	A. and M. Saytzeff	J. p. [2], 3, 88	24, 525
" " "	"	"	91.7 (747.7)	Liquid	Lieben and Rossi	A., 158, 167	24, 521; vii., 217
Isobutyl ethyl oxide....	$\text{CHMe}_2\text{CH}_2\text{OEt}$	"	78-80	....	Wurtz	A., 93, 118	ii., 537
Tertiary butyl ethyl oxide	$\text{Me}_3\text{C.OEt}$	"	68-69	....	....	C. R., 93, 69	
Isoamyl methyl oxide	$\text{CHMe}_2\text{CH}_2\text{CH}_2\text{O.Me}$	"	92	....	Williamson	4, 103, 234	i., 205
Hexyl alcohol	$\text{CH}_3(\text{CH}_2)_4\text{CH}_2\text{OH}$	"	157.3 c.	s.-30	Freutzel	B., 16, 745	44, 1075
" " "	"	"	157.2 (740.8)	....	Lieben and Janacek	A., 187, 126	32, 880
" " "	"	"	157	....	Grimshaw and Schorlemmer	26, 1081	
" " "	"	"	156.6 c. (752.5)	....	Franchimont and Zincké	B., 4, 823; C. N., 24, 263	vii., 646; 32, 880
" " "	"	"	150-155	....	Schorlemmer	P. T. [1872], 111	25, 1085; vii., 645
" " "	"	"	150-153	....	"	" "	vii., 645; 25, 1085
" " "	"	"	150-152	....	Cahours & Pelouse	C. R., 54, 1245; J., 16, 527	iii., 152; vi., 698
" " "	"	"	150	....	Rossi	A., 133, 178	vi., 395, 698
" " "	$\text{C}_6\text{H}_{11}\text{CH}_2\text{OH}$	"	152-153	....	Köbig	A., 195, 102	38, 455
" " "	"	"	151-156	....	Buff	J., 21, 336	
" " "	"	"	150	....	....	....	vi., 64
" " "	$\text{CHMe}_2(\text{CH}_2)_2\text{CH}_2\text{OH}$	"	148-154	....	Faget	J., 6, 504	vi., 698
" " "	$\text{CHMePr.CH}_2\text{OH}$	"	146.6	....	....	M. C., 4, 32	
" " "	"	"	146.9	....	....	M. C., 4, 40	
" " "	$\text{CH}_3(\text{CH}_2)_3\text{CH(OH).CH}_3$	"	140-142	....	Naumann	B., 7, 206	27, 563
" " "	"	"	140-141	....	Schorlemmer	A., 161, 272; P. T. [1872], 111	vii., 645; 25, 1085
" " "	"	"	136-140	....	"	P. T. [1878], 1	32, 866
" " "	"	"	136	....	"	27, 1030	vii., 868
" " "	"	"	132-137	....	Morgan	A., 177, 307	28, 303
" " "	"	"	138	Liquid	Lieben	A., 178, 22	29, 60
" " "	"	"	137 (755.5)	Liquid	Wanklyn and Er-lenmeyer	16, 221; J., 16, 521	iii., 152; vi., 698
" " two samples	"	"	135	....	Hecht	A., 165, 151	
" " " " "	"	"	135	....	"	"
" " " " "	$\text{Pr}^\alpha\text{CH(OH).Et}$	"	abt. 135	Liquid	Oechsner	B. S. [2], 24, 99	30, 67
" " " " "	"	"	134.5-135.5 c.	....	Völker	B., 8, 1019	29, 364
" " " " "	$\text{CHMeEt.CH(OH).CH}_3$	"	134	Liquid	Wislicenus	A., 219, 307	44, 966
" " " " "	$\text{CHMe}_2\text{CH}_2\text{CH(OH).CH}_3$	"	108	....	Schorlemmer	....	27, 1030
" " " " "	$\text{CMe}_3\text{CH(OH).CH}_3$	"	120.5	4	Friedel and Silva	J. [1873], 339; C. R., 76, 226	26, 488; vii., 982
" " " " "	?	"	134	....	Coninck	C. R., 82, 93	
" " " " "	?	"	135-140	....	Schorlemmer	A., 199, 139	38, 158
" " " " "	?	"	130-135	....	"	"	"
" " " " "	?	"	125-129	....	Morgan	....	28, 302
" " " " "	secondary	"	120-130	....	Wurtz	?	vi., 698
" " " " "	$\text{CMeEt}_2(\text{OH})$	"	121-122.5	....	....	J. p. [2], 26, 111; Z. C. [1865], 615	
" " " " "	$\text{CMe}_2\text{Pr}^\alpha(\text{OH})$	"	122.5-123.5	....	....	"
" " " " "	"	"	117-118	....	....	A., 195, 254; 209, 84	
" " " " "	$\text{CMe}_2\text{Pr}^\beta(\text{OH})$	"	112-113	s. — 35	Prianicknikow	Z. C. [2], 7, 275	24, 1036
" " " " "	"	"	118-119	s. b. — 25	Kaschirski	B., 11, 984	36, 46
" " " " "	"	"	118-119 (751)	s. — 26	Kaschirski	C. C. [1881], 278	42, 37
" " " " "	"	"	117-120	....	Rizza	J. R. [1882], 99	42, 491
" " " " "	Oxidation = acetic acid and acetone	"	110-112	....	Shdanow	B., 5, 479	vii., 18; 26, 48
Ethylidene diethylate (acetal)	$\text{CH}_3\text{CH(OEt)}_2$	$\text{C}_6\text{H}_{14}\text{O}_2$	75	....	Döbereiner		
" " " " "	"	"	95.2	....	Liebig	A., 5, 25	
" " " " "	"	"	103-105	....	Pinner	B., 5, 148	25, 406
" " " " "	"	"	100-105	....	Wurtz	C. R., 48, 478	i., 3
" " " " "	"	"	105 (768)	Liquid	....	....	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethylidene diethylate (acetal)	$\text{CH}_3\text{CH}(\text{OEt})_2$	$\text{C}_6\text{H}_{14}\text{O}_2$	105	....	Krämer and Pinner	B., 4, 788	24, 1188
" " "	"	"	104-106	....	Stas	J., 1, 697	
" " "	"	"	104	....	Wurtz and Frapolli	A., 108, 223	
" " "	"	"	103·7-104·3	....	Brühl	A., 203, 25	
" " "	"	"	104-104·1 c.	....	Perkin	....	45, 507
" " "	"	"	104	....	Bachmann	A., 218, 38	44, 727
" " "	"	"	104·3; 254·4 c. t.	....	Pawlewski	B., 16, 2633	46, 252
Ethylene diethylate	$\text{OEt}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{OEt}$	"	123·5 (758·8)	Liquid	Wurtz	A., 108, 84; A. C. [3], 55, 431	ii., 574
Methylpropylacetal	$\text{CH}_3\text{CH}(\text{OMe})(\text{OPr}^a)$	"	103-105	....	Bachmann	A., 218, 38	44, 727
Hexylene glycol	$\text{CH}_2(\text{OH})\cdot(\text{CH}_2)_4\cdot\text{CH}_2\text{OH}$	"	203-210	....	Hecht and Munier	B., 11, 1154	34, 966
" "	"	"	207	Liquid	Wurtz	A. C. [4], 3, 180	vi., 68
" "	"	"	abt. 207	Liquid	"	J. [1864], 512	vi., 699
" "	$\text{CHMe}(\text{CH}_2\text{OH})\cdot\text{CHMe}(\text{CH}_2\text{OH})$	"	212-215	Liquid	"	J., 17, 513	vi., 94
" "	"	"	215	Liquid	"	A. C. [4], 3, 62	vi., 68
" "	"	"	219-220	....	....	J. P. [2], 23, 18	
" "	$\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{OH})\cdot\text{CH}_2\text{OH}$	"	191-192	Liquid	Grabowsky & Saytzeff	A., 179, 325	29, 542
" "	$\text{Pr}^B\cdot\text{CH}(\text{OH})\cdot\text{CH}(\text{OH})\cdot\text{Me}$	"	204-208	s. 0.	Fossek	M. C., 5, 119	46, 833
" "	$\text{Et}\cdot\text{CH}(\text{OH})\cdot\text{C}(\text{OH})\text{Me}_2$	"	184	....	Flawitzky	A., 179, 340	29, 545
" " (pinacone)	$\text{Me}_2\text{C}(\text{OH})\cdot\text{C}(\text{OH})\text{Me}_2$	"	170 c.	....	Perkin	....	45, 506
" " "	"	"	171-172(739)	35-38	Linnemann	As., 3, 374	iv., 648
" " "	"	"	176-177	below 0	"	"	"
" " "	"	"	206-207	....	Eltekoff	J. R. [1882], 355	44, 567
" " (hydrate)	" + $6\text{H}_2\text{O}$	"	....	46	"	"	"
" " ....	"	"	....	46·5	Linnemann	As., 3, 374	iv., 648
" " ....	"	"	....	46·3	Pawlow	A., 196, 127	36, 536
Cochlearin ....	....	$\text{C}_6\text{H}_{14}\text{O}_2$ (?)	....	45	....	....	i., 1062
Ethylmethyl glycerol	$\text{CHEt}(\text{OH})\cdot\text{CMe}(\text{OH})\cdot\text{CH}_2(\text{OH})$	$\text{C}_6\text{H}_{14}\text{O}_3$	170-176 (53)	Liquid	Lieben and Zeisel	M. C., 4, 4	44, 570
Hexyl glycerol	primary and secondary	"	181 (10)	....	....	J. R. [1881], 353	
Trimethylglycerol	$\text{C}_3\text{H}_5(\text{OMe})_3$	"	148	Liquid	Alsberg	J. [1864], 495; A., 131, 123	v., 885; vi., 638
Glycolacetal	$\text{CH}_2\text{OH}\cdot\text{CH}(\text{OEt})_2$	"	167	Liquid	Pinner	B., 5, 150	vii., 1; 25, 406
Ethylidene oxymethyl alcoholate	$\text{CH}_3\text{C}(\text{OMe})_2(\text{OEt})$	"	126	....	Laatsch	A., 218, 13	44, 788
Propylic dimethyl orthoformate	$\text{CH}(\text{OMe})_2(\text{OPr})$	"	150-155	....	Pinner	B., 16, 1647	44, 1089
Triethylenic alcohol	$\text{HO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{OH}$	$\text{C}_6\text{H}_{14}\text{O}_4$	abt. 290	Liquid	Wurtz	J., 16, 489	ii., 577
" " "	"	"	285-290	....	Lourenço	J., 13, 443	
Diglycerol ....	....	$\text{C}_6\text{H}_{14}\text{O}_5$	220-230 (10)	....	Wurtz	A. C. [3], 67, 300	
Sorbite	$\text{C}_6\text{H}_{14}\text{O}_6 + \frac{1}{2}\text{H}_2\text{O}$	$\text{C}_6\text{H}_{14}\text{O}_6$	....	110-111	Boussingault	C. R., 74, 939; A. C. [4], 26, 376	25, 480; vii., 1093
Isodulcitate (Rhamnodulcitate) ....	....	"	....	93-94	Berend	B., 11, 1354	36, 40
" " " ....	....	"	....	92-93	Liebermann and Hormann	B., 11, 956	36, 39
" " " ....	....	"	....	93	Foerster	B., 15, 217	
" " " ....	....	"	....	105-110 d.	Hlasiwetz & Pfaunder	J. [1864], 564; A., 127, 362	v., 465, 1091
Mannite	$\text{CH}_2\text{OH}(\text{CH}\cdot\text{OH})_4\cdot\text{CH}_2\text{OH}$	"	abt. 200	160-165	Berthelot	G. J. C., 1857	iii., 823
" " " ....	"	"	....	165	Boussingault	C. R., 74, 939	25, 480; vii., 1093
" " " ....	"	"	....	165-166	Linnemann	G. J. C., 1862	
" " " ....	"	"	....	166	Kubel	J. p., 85, 372	ii., 606
" " " ....	"	"	....	166	Rechenberg	J. p. [2], 22, 223	40, 11
Dulcitate	$\text{C}_6\text{H}_8(\text{OH})_6$	"	....	182	Kubel	J. p., 85, 372	ii., 606
" " " ....	"	"	....	182	Gilmer	A., 123, 372	ii., 349
" " " ....	"	"	....	182	Jacquelin	Co. C. [1851], 21	"
" " " ....	"	"	....	182	Boussingault	C. R., 74, 939	25, 480; vii., 1093
" " " ....	"	"	....	188	Berthelot	G. J. C., 1855	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dulcite	$C_6H_8(OH)_6$	$C_6H_{14}O_6$	....	185	Kiliani	B., 13, 2306	
"	"	"	....	185.5	Rechenberg	J. p. [2], 22, 223	40, 11
"	"	"	....	186	Eichler	R., 2, 103	ii., 349
"	"	"	....	187	Bouchardat	A. C. [4], 27, 68 ; C. R., 73, 199	vii., 441 ; 24, 810
"	"	"	....	188.5	"	"	"
"	"	"	....	190	Laurent	Co. C. [1850], 364	ii., 349
Aloisol	....	$C_6H_{16}O_3$ (?)	130	....	Robiquet	....	i., 148
Mesitene	....	$C_6H_{24}O_3$ (?)	63	....	Weidmann and Schweitzer	A., 36, 305	
Salicylide	$C_6H_4.CO.O$ or $C_6H_4.CO.O.O.C_6H_4.O$ or $C_6H_4.CO.O.C_6H_4.COO$	$C_7H_4O_2$	....	Mostly at 195-200 p.d.; all at 220- 225	Schiff	A., 163, 220	vii., 1067 ; 25, 819
Catechol carbonate	$C_6H_4O.CO.O = 1.2$	$C_7H_4O_3$	....	118	Bender	B., 13, 697	40, 48
Chelidonic acid	....	$C_7H_4O_6$	....	220 d.	....	A.	
Benzoic aldehyde	$C_6H_5.CO.H$	C_7H_6O	174-178	....	Tilden	P. J. T. [3], 5, 761	28, 1258
"	"	"	176.6-179 (751-752)	....	Lossen	A., 214, —	
"	"	"	179.1 (751.3)	Liquid	Kopp	A., 112, 175	i., 568
"	"	"	180-183	....	Guckelberger	J., 1, 850	
Furfuracrolein	....	$C_7H_6O_2$	200 p. d.	51	Schmidt	B., 13, 2343	40, 248
Toluquinone	$C_6H_3Me : O_2 = 1.2.5$	"	....	64	Spica	G. I. [1882], 225	42, 1065
"	"	"	....	67	Nietzki	B., 10, 833, 1155	32, 767
"	"	"	....	67	Riedel	B., 13, 126	38, 386
"	"	"	....	67-68	Nölting and Kahn	B., 17, 366	46, 902
" (polymer)	....	$(C_7H_6O_2)_n$	....	300	Spica	G. I. [1882], 225	42, 1065
Rubiretin	....	$C_7H_6O_2$	....	abt. 100	Schunck	....	v., 132
Hydroxybenzaldehyde (salicyl)	$C_6H_4.OH.CO.H = 1.2$	"	182-185	....	Ettling	A., 29, 310	v., 168
"	"	"	178.2	....	Mendeljeff	J., 13, 20	
"	"	"	196.5	s. -20	Piria	A., 29, 300 ; 30, 154	v., 168
"	=1.3	"	....	104	Tiemann & Ludwig	B., 15, 2044	44, 188
"	"	"	240	....	Tiemann and Will	B., 14, 969	
"	=1.4	"	....	111-112	Bücking	B., 9, 529	30, 296
"	"	"	....	115-116	Reimer & Tiemann	B., 9, 1268	31, 84
"	"	"	....	115-116	"	B., 9, 825	30, 633
"	"	"	....	115-116	Japp & Streatfield	....	41, 150
Benzoic acid	$C_6H_5.CO.OH$	"	255	....	Ramsay	39, 64	
"	"	"	255	....	Hittorf	G. J. C., 1865	
"	"	"	....	119	Laubenheimer	A., 164, 289	26, 65
"	"	"	....	119-120	Hodgkinson	....	33, 499
"	"	"	....	119-120	"	....	33, 500
"	"	"	....	119-120	"	....	"
"	"	"	....	120	"	....	33, 501
"	"	"	....	120; 120	Perkin	45, 182, 184	
"	"	"	....	121.4	Schiff	A., 223, 247	46, 1089
"	"	"	....	120.5	Wright and Luff	....	35, 395
"	"	"	....	120-121	"	....	33, 333
"	"	"	....	120.5	Busse	B., 9, 832	30, 641
"	"	"	....	121	Rennie	....	41, 37
"	"	"	249	121	Carnelley & Williams	....	33, 282
"	"	"	249.2 (740)	121.4	Kopp	J., 8, 35	i., 549
"	"	"	....	120.5	Japp and Wilcock	....	37, 670
"	"	"	....	121.5	"	....	37, 663
"	"	"	....	121.5	"	....	37, 670
"	"	"	....	121-121.5	"	....	37, 669
"	"	"	250	121.4	Jones	....	33, 181
"	"	"	....	121.5	Popoff	5, 39	25, 409
"	"	"	....	121.5	"	B., 4, 721	24, 1058

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Benzoic acid	$C_6H_5.COOH$	....	....	123.3	Kachler	Z. C. [2], 6, 60	vii., 160
Phenol + CO_2$ ....	....	C_7H_6O_3$ (?)	....	37	Klepl	J. p., 25, 464	44, 585
Furfuracrylic acid	$C_4H_3O.CH:CH.COOH$	$C_7H_6O_3$	....	135	Baeyer	B., 10, 357	32, 444
Methoxy quinone	$C_6H_3.OMe:O_2=1.2$ ?	"	....	138	Mühlhäuser	A., 207, 251	42, 302
Oxytolic acid ....	....	"	....	180	Fittig	A., 120, 966	iv., 321
Hydroxybenzoic acid (salicylic)	$C_6H_4.OH.COOH=1.2$	"	....	121	Procter	J. P. [3], 3, 275	v., 153
" " "	" "	"	sb. 200	125	Ettling	A., 53, 77	"
" " "	" "	"	....	154	Richter	B., 4, 554	24, 824
" " "	" "	"	....	155	Wroblevsky	Z. C. [2], 7, 6	24, 130
" " "	" "	"	....	155	Liebermann	B., 10, 1038	32, 782
" " "	" "	"	180-190	155	Perkin and Hodgkinson	....	37, 488
" " "	" "	"	....	155-156	Rechenberg	J. p. [2], 22, 223	40, 11
" " "	" "	"	....	156	Velden	J. p. [2], 15, 151	32, 337
" " "	" "	"	....	156	Smith, E. F.	A. C. J., 2, 338	40, 1035
" " "	" "	"	....	157	Petersen	B., 6, 377	26, 1133
" " "	" "	"	....	157.5	Farsky	C. C. [1877], 148	34, 225
" " "	" "	"	....	158	Cahours	A. C.	v., 153
" " "	" "	"	....	157	Kolbe & Lantemann	G. J. C., 1860	
" " "	" "	"	....	155-156	Hübner	G. J. C., 1872	
" " "	" "	"	....	157	Vogt & Henninger	G. J. C., 1873	
" " "	" "	"	....	155-156	Köhler	G. J. C., 1879	
" " "	" "	"	....	156-158	Oliveri	G. I., 13, 263	46, 174
" " "	" =1.3	"	....	182	Ador & Oppenheim	Z. C. [2], 7, 22	24, 131
" " "	" "	"	....	189	Remsen	Z. C. [2], 7, 294	24, 1052
" " (4th) ....	" ?	"	....	188-190	Fittica	B., 11, 1208	34, 980
" " "	" =1.3	"	....	190-195	Oliveri	G. I., 13, 263	46, 174
" " "	" "	"	....	196-197	Mazzara	G. I., 9, 425	38, 164
" " "	" "	"	....	197	Conrad	J. p. [2], 15, 241	32, 485
" " "	" "	"	....	198	Ost	J. p. [2], 11, 385	29, 253
" " "	" "	"	....	199	Sarauw	B., 15, 43	42, 608
" " "	" "	"	....	199	Petersen	B., 6, 377	26, 1133
" " "	" "	"	....	200	Barth	G. J. C., 1870	
" " "	" "	"	....	200	Liebermann	B., 10, 1038	32, 782
" " "	" "	"	....	200	Fischer	G. J. C., 1863	
" " "	" "	"	....	200	Rechenberg	J. p. [2], 22, 223	40, 11
" " "	" "	"	....	201	Fittica	B., 11, 1208	34, 980
" " "	" =1.4	"	....	210 p. d.	Saytzeff	A., 127, 129	iv., 353
" " "	" "	"	....	210	Barth	G. J. C., 1870	
" " "	" "	"	....	210	Remsen	Z. C. [2], 7, 81	24, 369
" " "	" "	"	....	210	"	Z. C. [2], 7, 199	24, 704
" " "	" "	"	....	210	Petersen	B., 6, 377	26, 1133
" " "	" "	"	....	210	Velden	J. p. [2], 15, 151	32, 337
" " "	" "	"	....	210	Liebermann	B., 10, 1038	32, 782
" " "	" "	"	....	210	Vogt & Henninger	G. J. C., 1873	
" " "	" "	"	....	210	Jacobsen	B., 11, 376	34, 582
" " "	" "	"	....	210	Rechenberg	J. p. [2], 22, 223	40, 11
" " "	" "	"	....	211	Balbiano	G. I., 13, 65	44, 1125
Dihydroxybenzaldehyde (gentisic)	$COH.OH.OH=1.2.5$	"	....	99	Tiemann and Müller	B., 14, 1986	42, 52
" " (resorcylic)	" 1.2.6	"	....	134-135	Tiemann and Lewy	B., 9, 1269 ; 10, 2212	34, 424
" " "	" 1.2.4	"	....	134-135	Tiemann and Parrisius	B., 13, 2379	
" " (protocatechuic)	" 1.3.4	"	....	150	Tiemann and Koppe	B., 8, 1123 ; 9, 1269 ; 14, 2015	42, 54
" " "	" "	"	....	150	Remsen and Fittig	Z. C. [2], 7, 100	vi., 976
" " "	" "	"	....	150	Fittig and Remsen	A., 159, 149	24, 939
Acetylpyromeconic acid	$C_5H_3O_2.OAc$	$C_7H_6O_4$	....	91	Ost	J. p. [2], 19, 187	36, 708

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dihydroxytoluquinone	.... $C_6HMe(OH)_2 \cdot O_2$	$C_7H_6O_4$	....	177	Zincké	B., 16, 1562	44, 1118
Dihydroxybenzoic acid	.... $COOH.OH.OH=1.2.6$	"	d. 135	140 d.	Senhofer and Brunner	W. A., 80, 504; 81, 430, 1044	40, 266
"	"	"	....	148-167	"	B., 13, 2356	41, 410
"	"	"	....	s. w. m., 170	Leeds	B., 14, 482	40, 584
"	"	"	....	abt. 180	Matthiessen and Forster	16, 350	iii., 239
"	"	"	....	180 d.	Beckett and Wright	....	29, 299
"	"	"	....	189	Remsen	Z. C. [2], 7, 294	vii., 1127
"	"	"	....	192 d.	Miller	....	41, 400
"	"	"	....	204 d.	"	B., 16, 81	41, 406
"	" (gentisic)	"	....	183	Liechti	As., 7, 144; Z. C. [2], 6, 197	41, 401; vi., 1005
"	"	"	....	183	Demole	B., 7, 1437	28, 253
"	"	"	....	192	Hlasiwetz and Habermann	A., 175, 66	28, 572
"	"	"	....	193	Lantemann	A., 120, 311	iv., 320; vi., 1005
"	"	"	....	197	Senhofer & Sarlay	M. C., 2, 448	40, 1140
"	"	"	....	195-197	P. Frankland	....	37, 750
"	"	"	....	196-197	Hlasiwetz and Habermann	A., 180, 347	30, 83
"	"	"	....	196-197	Goldberg	J. p. [2], 19, 371	38, 929
"	"	"	....	196-197	Tiemann & Müller	B., 14, 1988	42, 52
"	"	"	....	197	Rakowski & Leppert	B., 8, 789	41, 409
"	"	"	....	200	Miller	B., 16, 81	41, 45
"	"	"	....	194	Ascher	B., 4, 649; A., 161, 11	24, 828, 1055; 25, 240; vii., 432
"	" (+3H ₂ O)	"	....	148	"	"	"
"	"	"	....	194	Blomstrand	B., 5, 1090	26, 506
"	"	"	....	194	Fahlberg	A. C. J., 2, 181	40, 818
"	"	"	....	194-198	Senhofer & Brunner	W. A., 80, 504; 81, 43, 1044	40, 265
"	"	"	....	200	Tiemann & Reimer	B., 12, 997	41, 409
"	"	"	....	204-206	Tiemann & Parrisius	B., 13, 2360, 2379	41, 409
"	" (protocatechuic)	"	....	194	Barth and Schmidt	G. J. C., 1879	41, 409
"	"	"	....	199	Miller	....	41, 399
"	"	"	....	199	Malin	....	41, 410
"	"	"	....	197 c.	Beckett & Wright	....	29, 473
"	"	"	....	199 c.	"	....	29, 308
"	"	"	....	198-199 c.	"	....	29, 287
"	"	"	....	199	Hlasiwetz	G. J. C., 1864	41, 409
"	"	"	....	199	....	....	iv., 739
"	"	"	....	199	Fittig and Remsen	A., 159, 129	24, 939
"	"	"	....	198	Barth	G. J. C., 1870	41, 409
"	"	"	....	199	Ascher	B., 4, 649	vii., 432
"	"	"	....	199	Körner	G. I., 6, 142	31, 88
"	"	"	....	207 c.	Hesse	A., 112, 527	iii., 215
"	"	"	....	220	Barth & Senhofer	B., 4, 632	24, 828
"	"	"	....	a. 220	"	A., 159, 222, 164, 109	vii., 433
"	"	"	....	232-233	Böttiger	B., 8, 375	41, 409
Gallic acid	.... $COOH.(OH)_3=1.3.4.5$	$C_7H_6O_5$	....	abt. 200	Pelouze	A., 12, —	38, 160
"	"	"	....	220	"	B., 12, 36	41, 409
"	"	"	....	225-230 d.	Robignet	[1837]	41, 409
"	"	"	....	197-200	Matsmoto	G. J. C., 1878	41, 409
"	"	"	....	210 when slowly heated	Freda	G. I., 9, 327	38, 122

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Gallic acid	$\text{COOH}(\text{OH})_3=1.3.4.5$	$\text{C}_7\text{H}_6\text{O}_5$	....	240-252 when quickly heated	Freda	G. I., 9, 327	38, 122
" " ....	" "	"	....	222	Etti	B., 11, 1882	38, 160
" " ....	" "	"	....	232	"	"	"
" " ....	" "	"	....	240	"	"	"
" " ....	" "	"	....	235-240	Schiff	G. I., 9, 1	36, 647
" " ....	" "	"	....	240 d.	"	B., 12, 37	36, 466
Methylphenyl oxide (anisol)	$\text{C}_6\text{H}_5\text{OCH}_3$	$\text{C}_7\text{H}_8\text{O}$	152	Liquid	Cahours	A. C. [3], 2, 274 ; 10,353; & 27,439	i., 305
Benzyl alcohol	$\text{C}_6\text{H}_5\text{CH}_2\text{OH}$	"	204.5-205.5 (743)	....	Bruhl	A., 200, 139	38, 296
" "	" "	"	204	....	Cannizzaro	J., 7, 585	
" "	" "	"	205-207	....	Laubenheimer	A., 164, 289	vii., 177 ; 26, 65
" "	" "	"	206.5 (751.4)	Liquid	Kopp	A.	i., 578
" "	" "	"	206.2 c.	b.-18	Kraut	A., 152, 134	vi., 335
" "	" "	"	207	....	....	....	vii., 931
Cresol	$\text{C}_6\text{H}_4\text{Me.OH}=?$	"	....	Liquid	Wurtz	A. C. [4], 25, 108	vii., 1163
"	" "	"	abt. 197	....	Allen	An. [1878], 319	36, 182
"	" "	"	200	Liquid	Friedel and Crafts	C. R., 86, 884	34, 670
"	" "	"	198	...	Rad	J., 22, 448	
"	" "	"	203	Liquid	Williamson & Fairlie	7, 232	ii., 107 ; vi., 505
"	" =1.3	"	189-190	s.-38	Barth	Z. C., 13, 624	
"	" "	"	195-200	l. f. m.	Engelhardt and Latschinoff	Z. C. [1869], 623	vi., 507
"	" "	"	196-202	s.-14	Gladstone & Tribe	....	41, 12
"	" "	"	abt. 192	....	Kolbe	J. p. [2], 8, 41	27, 373
"	" "	"	193-195	....	Schwarz	M. C., 3, 728	44, 205
"	" "	"	198-200	....	Southworth	A., 168, 268	
"	" "	"	201	Liquid -20	Oppenheim & Pfaff	B., 8, 889	
"	" "	"	200-204	Liquid	Tiemann & Schotten	B., 11, 770	
"	" "	"	201	....	Tiemann & Hoppe	B., 14, 2013	
"	" =1.2	"	185-187	....	Gerichten & Rössler	B., 11, 1587	38, 323
"	" "	"	189	l. f. m.	Engelhardt and Latschinoff	Z. C. [1869], 620	vi., 507
" ....	" "	"	....	abt. 15	?	?	?
"	" "	"	188	30-31	Ihle	J. p. [2], 14, 442	31, 708
" ....	" "	"	....	29.8-30.4	Nevile & Winther	....	37, 631
"	" "	"	185-186	31-31.5	Kekulé	B., 7, 1006	vii., 934 ; 28, 64
"	" "	"	186	....	Tiemann & Hoppe	B., 14, 2013	
"	" "	"	188	30	Tiemann & Shotten	B., 11, 769	
"	" "	"	190	....	Southworth	A., 168, 273	
"	" =1.4	"	205	34	Buff	B., 4, 378	24, 531 ; vii., 393, 934
"	" "	"	199	....	Tiemann & Hoppe	B., 14, 2013	
"	" "	"	201.5-202	34.5	Wurtz	A. C. [4], 25, 108	vii., 1163
"	" "	"	199-202	35	Jacobsen	B., 11, 376	34, 582
" ....	" "	"	....	35	Vogt & Henninger	C. R., 94, 650	42, 729
"	" "	"	198	35	Fuchs	Z. C., 13, 171	
"	" "	"	198-199	36-37	Tiemann & Schotten	B., 11, 769	
"	" "	"	197-198	....	Southworth	A., 168, 273	
"	" "	"	197-200	....	Guareschi	G. I., 4, 22	27, 584
"	" "	"	199-202	....	Gladstone & Tribe	....	41, 10
"	" "	"	198-200	s. f. m.	Engelhardt and Latschinoff	Z. C. [1869], 623	vi., 506
"	" "	"	197	36	Barth	Z. C., 13, 624	
"	" "	"	198	36	Ihle	J. p. [2], 14, 442	31, 708
Methoxyhydroxybenzene	$\text{OMe.OH}=1.3$	$\text{C}_7\text{H}_8\text{O}_2$	243	Liquid	Tiemann & Parrisius	B., 13, 2362	40, 270
" (guaiacol)	" =1.2	"	243-244	"	Habermann	B., 10, 868	32, 474
" "	" "	"	200	....	Beckett & Wright	....	29, 286
" "	" "	"	200	....	Grätzel	A. P. [3], 20, 605	44, 393

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methoxyhydroxybenzene (guaiacol)	OMe.OH = 1.2	$C_7H_8O_2$	210	....	J. Williams	C. C. [1873], 167	27, 583
" "	" "	"	205-210	....	Hlasiwetz	A., 106, 366	
" "	" "	"	210	....	Sobrero	....	Watts' Dict.
" "	" "	"	203-205	....	Völckel	J., 7, 610	
" "	" "	"	210	....	"	G. J. C., 1854	
" "	" "	"	200	....	Gorup	G. J. C., 1867	
" "	" "	"	199	....	"	G. J. C., 1868	
" "	" = 1.4	"	abt. 243	53 u. c.	Hlasiwetz and Habermann	A., 177, 339	29, 79
" "	" "	"	....	53	Tiemann & Müller	B., 14, 1989	42, 52
Hydroxybenzyl alcohol	(CH ₂ OH).OH = 1.3	"	300 p. d.	67	Velden	J. p. [2], 15, 166	32, 338
" " (saligenin)	" = 1.2	"	....	s. 82	Piria	A., 56, 39	v., 173
" " "	" "	"	....	82	Beilstein	A., 117, 83; 128, 179	"
" " "	" = 1.4	"	....	197.5	Herzfeld	B., 10, 1267	34, 65
β -Isorecin	Me.OH.OH = ?	"	260	87	Senhofer	A., 164, 132	vii., 1170; 25, 1017
α - " (anhydrous)	" = 1.2.4 (?)	"	270	87-88	Blomstrand and Hakansson	B., 5, 1087	
α - " (hydrated) ....	" "	"	....	95	" "	"	
Dihydroxytoluene (tolu-quinol)	" = 1.3.4	"	....	Liquid	Müller	C. N., 10, 269	
" "	" "	"	....	Liquid	Tiemann and Nagai	B., 10, 210; 11, 672	
" "	" "	"	....	Liquid	Neville & Winther	B., 15, 2983	41, 426
" "	" = (?)	"	....	69	Carstanjen	J. p. C. [2], 23, 421	42, 612
" "	" = 1.2.4	"	....	103	Knecht	B., 15, 301	42, 729
" "	" "	"	....	103; 104-105	Wallach	B., 15, 2835	
" "	" "	"	....	104-105	Neville & Winther	B., 15, 2981	41, 423
" "	" "	"	267-270	....	....	A., 215, 92	
" "	" "	"	....	104-105	Vogt & Henninger	C. R., 94, 650	42, 729
" (orcinol)	" = 1.3.5	"	287-290	....	Dumas	A., 27, 140	
" "	" "	"	286-290	86	Lamparter	A., 134, 243	41, 418
" "	" "	"	....	103-108	Neville & Winther	B., 15, 2988	41, 420
" "	" "	"	....	106-108	" "	"	41, 418
" "	" "	"	....	106.5-108	" "	"	"
" " + H ₂ O	" "	"	....	abt. 56	" "	"	"
" "	" "	"	....	54-56	" "	"	41, 420
" "	" "	"	....	57-58	Schröder	B., 12, 1612	
" "	" "	"	....	57.1	Vogt & Henninger	A. C. [4], 27, 129	41, 418
" "	" "	"	....	58	Hesse	G. J. C., 1881	
" "	" "	"	....	58	Lamparter	A., 134, 243	41, 418
" "	" = 1.2.5	"	....	124	Nietzki	B., 10, 834	32, 476
" " ....	" "	"	....	124	"	B., 10, 1157	32, 767
" " ....	" "	"	....	124-125; 123-125	Neville & Winther	B., 15, 2979	41, 425
" " ....	" "	"	....	125	Nietzki	A., 215, 159	44, 467
" "	[C ₆ H ₃ .Me.(OH) ₂] _n	(C ₇ H ₃ O ₂) _n	....	204	Spica	G. I. [1882], 225	42, 1065
Furfuropropionic acid	CH ₃ C(CH ₂) ₂ COOH	C ₇ H ₈ O ₃	....	50-51	Baeyer	B., 10, 357	32, 445
Ethyl pyromucate	C ₄ H ₃ .COOEt	"	203-210	34	Malaguti	A., 25, 276	iv., 765
" " ....	"	"	....	33-34	Jourdan	B., 16, 659	
Methyl pyrogallol	C ₈ H ₂ .Me.(OH) ₃ = ?	"	....	129	Hofmann	B., 12, 1371	38, 249
Reduction of quercetin	....	"	....	130	....	J. [1864], 562	v., 5
Uvic acid (pyrotritaric)	CH ₃ C(COOH):CH.CH: CH.CHOH	"	....	133	Böttinger	A., 172, 242	27, 1159
" " " " ....	"	"	....	133	"	B., 6, 893	33, 429
" " " " ....	"	"	....	134.5	Wislicenus and Stadnicki	A., 146, 306	vi., 981
" " " "	COOH.CHAc.CH:C:CH ₂	"	....	135	Harrow	....	33, 429

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Uvic acid (pyrotritaric)	$\text{COOH} \cdot \text{CHAc} \cdot \text{CH} : \text{C} : \text{CH}_2$	$\text{C}_7\text{H}_8\text{O}_2$	....	135-136	Harrow	....	33, 434
" " " " ....	"	"	....	135-136	"	....	33, 430
Hydro-hydroxybenzoic acid	$\text{C}_6\text{H}_5\text{COOH} \cdot \text{OH}$	"	....	273; 274.5 c.	Emmerling and Oppenheim	B., 9, 326	30, 85
Teraconic anhydride ....	....	" (?)	270-280 p. d.	....	Geisler	A., 208, 37	42, 42
Terebilenic acid	$\text{CMe}_2 \cdot \text{O} \cdot \text{CO} \cdot \text{CH} : \text{C} \cdot \text{COOH}$	$\text{C}_7\text{H}_8\text{O}_4$	....	169	Roser	B., 15, 296	
Furonic acid	$\text{C}_5\text{H}_5\text{O}(\text{COOH})_2$	$\text{C}_7\text{H}_8\text{O}_5$	....	180	Baeyer	B., 10, 695, 1358	32, 744
Diacetomesoxalic acid	$\text{C}(\text{OAc})_2(\text{COOH})_2$	$\text{C}_7\text{H}_8\text{O}_8$	....	130	Petrieff	B., 11, 414	34, 490
Isoallylene tetracarboxylic acid	$\text{C}(\text{COOH})_2(\text{CH}_2 \cdot \text{COOH})_2$	"	....	151 d.	Bischoff	B., 13, 2164	40, 156
From bromamylene dibromide	$\text{C}_5\text{H}_5 \cdot \text{O} \cdot \text{Et}$	$\text{C}_7\text{H}_{10}\text{O}$	125-130	Liquid	Reboul	C. R., 58, 1058	vi., 120
Tropilene ....	....	"	180-181; 181-182	....	Ladenburg	C. R., 93, 517; B., 14, 2130	42, 216
From α -ethyl- β -acetopropionic acid	....	$\text{C}_7\text{H}_{10}\text{O}_2$	219	....	Thorne	....	39, 343
Mesitonic lactone	$\text{CMe}_2 : \text{CH} \cdot \text{CMe} \cdot \text{CO} \cdot \text{O}$	"	167	24	Pinner	B., 15, 579	42, 942
Pimelic anhydride	$\text{CO} \cdot \text{CH}_2 \cdot \text{CHPr}^\beta \cdot \text{COO}$	$\text{C}_7\text{H}_{10}\text{O}_3$	245-250	Liquid	Kachler	A., 169, 172	27, 155
" " " "	"	"	245-250	....	Roser	A., 220, 271	46, 423
Acrolein diacetate	$\text{C}_3\text{H}_4(\text{OAc})_2$	$\text{C}_7\text{H}_{10}\text{O}_4$	180	Liquid	Hübner & Geuther	A., 114, 48	i., 147; vi., 97
Methylic mesaconate	....	"	203.5 c.	....	Anschütz	B., 14, 2785	
" " " " ....	....	"	205 c.	Liquid	Perkin	B., 14, 2542	39, 556
" " " " ....	....	"	210 c.	Liquid	"	....	"
" citraconate ....	....	"	212 c.	Liquid	"	B., 14, 2541	39, 555
" " " " ....	....	"	210.5 c.	....	Anschütz	B., 14, 2785	
" itaconate ....	....	"	210-212.5	....	"	B., 14, 2787	
Carbocaprolactonic acid	....	"	abt. 260	68-69	Hjelt	B., 16, 335	44, 656
Allylsuccinic acid	$\text{COOH} \cdot \text{CH}(\text{C}_3\text{H}_5) \cdot \text{CH}_2 \cdot \text{COOH}$	"	....	93-94	"	B., 16, 334	"
Teraconic acid	$\text{C}_5\text{H}_5(\text{COOH})_2$	"	....	161-163	Geisler	A., 208, 50	42, 42
Terebic acid ....	....	"	....	168	Caillot	A. C. [3], 21, 27	27, 71
" " " " ....	....	"	....	174	Hempel	A., 180, 71	29, 921
" " " "	$\text{CHMe}_2 \cdot \text{CH} \cdot \text{CH}(\text{COOH}) \cdot \text{CO} \cdot \text{O}$	"	....	174	Mulck	A., 180, 45	29, 924
" " " "	$\text{CHMe}_2 \cdot \text{C}(\text{CO}) \cdot \text{CH}(\text{OH}) \cdot \text{COOH}$	"	....	175	Carleton Williams	B., 6, 1094	27, 71
" " " "	$\text{C}_7\text{H}_8\text{O}_2(\text{OH})_2$	"	....	200	....	....	v., 723
Hydrofuronic acid	$\text{COOH} \cdot (\text{CH}_2)_2 \cdot \text{CO} \cdot (\text{CH}_2)_2 \cdot \text{COOH}$	$\text{C}_7\text{H}_{10}\text{O}_5$	....	112	Baeyer	B., 10, 697, 1359	32, 744
Boheic acid ....	....	$\text{C}_7\text{H}_{10}\text{O}_5$	....	100	Rochleder	A., 63, 202	i., 617
Chelidoninic acid ....	....	" (?)	....	195	Zwenger	A., 114, 350	i., 850
Ethylpentinyl oxide	$\text{Et} \cdot \text{O} \cdot \text{C}_5\text{H}_7$	$\text{C}_7\text{H}_{12}\text{O}$	125-130	....	....	A., 133, 86	
Diallyl carbinol	$(\text{CH}_2 : \text{CH} \cdot \text{CH}_2)_2 \cdot \text{CHOH}$	"	148-151	....	Kanounikoff and Saytzeff	A., 185, 149	32, 298
" " " "	"	"	151 c.	....	Saytzeff	A., 185, 129	32, 297
From Ca-isobutyrate ....	....	"	150-152	....	Barbaglia & Gucci	B., 13, 1571	40, 35
Suberone ....	....	"	176	....	Tilley	A., 39, 167	27, 935
" " " "	$\text{CH}_2 \cdot \text{CH}_2 \cdot \text{CH}_2 \begin{array}{l} \diagup \text{CO} \\ \diagdown \end{array}$	"	179-181 c.	....	Schorlemmer and Dale	35, 685	27, 936
" " " " ....	....	"	180-185	....	Ladenburg	B., 14, 2406	
" " " " ....	....	"	186	....	Boussingault	A., 19, 308	27, 935
Allylic butyrate	$\text{C}_3\text{H}_7 \cdot \text{COO} \cdot \text{CH}_2 \cdot \text{CH} : \text{CH}_2$	$\text{C}_7\text{H}_{12}\text{O}_2$	abt. 140	Liquid	Cahours & Hofmann	P. T. [1857], 555	i., 695
" " " "	"	"	abt. 145	....	Berthelot and De Luca	A. C. [3], 48, 289	
Ethyl allylacetate	$\text{CH}_2 : \text{CH} \cdot \text{CH}_2 \cdot \text{CH}_2 \cdot \text{COOEt}$	"	133-135	....	Wurtz	J., 21, 446	
" " " "	"	"	142-144	....	Zeidler	B., 8, 1035; A., 187, 39	29, 368; 32, 437
Valerylene acetate	$\text{C}_5\text{H}_9 \cdot \text{OAc}$	"	abt. 153	Liquid	Reboul	B. S. [2], 8, 190	vi., 1124
Ethyl methylcrotonate (tiglate)	$\text{CHMe} : \text{CMe} \cdot \text{COOEt}$	"	153-155	....	Demarçay	C. R., 80, 1400	30, 70
" " " "	"	"	154-156	....	Berendes	B., 10, 836	32, 593

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl methylcrotonate (tiglate)	CHMe: CMe.COOEt	C ₇ H ₁₂ O ₂	154-156	....	Schmidt	A. P. [3], 13, 213	36, 222
" "	"	"	156	Liquid	Frankland & Duppa	18, 133	36, 222; vi., 828
" "	"	"	156 c.	....	Geuther & Fröhlich	Z. C. [1870], 26, 549	36, 222; vii., 395
Teracrylic acid. ....	....	"	216-218	Liquid	Fittig	B., 10, 521	32, 432
" " ....	....	"	217-218	Liquid	Amthor	A. P. [3], 18, 356	42, 46
" " ....	....	"	218 cor.	l. f. m.	Fittig and Kraft	A., 208, 82	42, 43
" " ....	....	"	....	72	Sarnow	B., 4, 731	24, 1046
Heptolactone	from terpenylic acid	"	202-204	....	Amthor	A. P. [3], 18, 356	42, 46
"	"	"	202-204	1.-16	"	"	42, 45
"	"	"	210-212	....	"	"	"
"	CHMe.CH ₂ .CHEt.CO.O	"	219.5 c.	Liquid	Young	A., 216, 38	43, 173
"	C ₃ H ₇ .CH.CH ₂ .CH ₂ .CO.O	"	220 c.	11	Fittig	A., 208, 111	42, 33
"	"	"	220 c.	11	Fittig and Kraft	A., 208, 88	42, 43
" ....	....	"	224-225	....	Young	....	43, 179
Methyl ethylacetoacetate	CHEtAc.COOMe	C ₇ H ₁₂ O ₃	186.8	....	Geuther	J., 18, 303	
" "	"	"	189.7 c.	....	Brandes	Z. C. [1866], 457	vi., 829
Ethyl α-acetopropionate	CH ₃ .CHAc.COOEt	"	185-186	....	Rohrbeck	B., 8, 1036	29, 369
" "	"	"	187	....	Geuther	J. [1865], 304	vi., 16
" "	"	"	186.8	....	....	A., 138, 335; 188, 231	vi., 591
Ethyl β-acetopropionate	CH ₂ Ac.CH ₂ .COOEt	"	203-205	Liquid	Conrad	A., 188, 225	34, 137
" "	"	"	203-205	....	Grote and Tollens	B., 10, 1440	32, 882
" "	"	"	200-210	....	Conrad	B., 11, 2177	36, 453
" "	"	"	200-201 u.c. (756)	....	Grote and Tollens	B., 10, 1442	32, 882
" "	"	"	200-201 (756) = 205.2 c.	....	Grote, Kehrner and Tollens	A., 206, 221	40, 410
α-ethyl β-acetopropionic acid	CH ₂ Ac.CHEt.COOH	"	250-252	1.-15	Thorne	....	39, 340
Acetopentyl acid ....	....	"	210-220	....	Hardtmuth	A., 192, 142	34, 782
Mesitonic acid	CMe ₂ : CH.CMe(OH).COOH	"	....	88	Pinner	B., 15, 578, 585	42, 942
" "	"	"	230-240	90	"	B., 14, 1073	40, 796
Hydroxypentinic acid ....	....	"	....	103-104	....	A. C. [5], 20, 490	
Methyl β-ethoxyerotic acid	....	"	....	132	Friedrich	A., 219, 322	44, 968
Propylene diacetate	CH ₃ .CH(OAc).CH ₂ (OAc)	C ₇ H ₁₂ O ₄	180-185	....	....	....	vi., 965
" "	"	"	186	Liquid	Wurtz	A. C. [3], 55, 400; C. R., 78, 1773	v., 892; 27, 977
" "	AcO.CH ₂ .CH ₂ .CH ₂ .OAc	"	203-205 (717)	....	Geromont	B., 4, 550; A., 158, 369	vii., 1021; 24, 697
" "	"	"	209-210 c.	....	Reboul	C. R., 79, 169	27, 1153
" "	"	"	210	....	"	C. R., 78, 1773	27, 977
" "	"	"	209-210	....	"	A. C. [5], 14, 491	36, 133
Ethyl acetolactate	CH ₃ .CH(OAc).COOH	"	177 (733)	Liquid	Wislicenus	A., 125, 59	iii., 460
" propionylglycollate	CH ₃ (OC ₃ H ₅ O).COOEt	"	200-201	Liquid	Senff	A., 208, 270	40, 1127
Butyrolactic acid	CH ₃ .CH(OC ₄ H ₇ O).COOH	"	208	....	Wurtz	A. C. [3], 59, 177	iii., 460
From alkaline camphorate	Fusion with KHO	"	....	114	Hlasiwetz and Grabowski	Z. C. [2], 4, 508	vi., 389
β-ethylglutanic acid	CHEt(CH ₂ .COOH) ₂	"	....	66	Kommenos	A., 218, 145	46, 423
α-pimelic acid	COOH.(CH ₂) ₅ .COOH	"	....	100	Dale & Schorlemmer	A., 199, 148	35, 686
α- " " ....	"	"	....	100	Baeyer	B., 10, 1358	34, 4
α- " " ....	"	"	....	103	Schorlemmer & Dale	B., 7, 808	27, 936
α- " " ....	"	"	....	130	Helms	B., 8, 1167	29, 374
Propylsuccinic acid	COOH.CHPr ^a .CH ₂ .COOH	"	....	91	Waltz	A., 214, 59; B., 15, 608	44, 46; 42, 948
Isopropylsuccinic acid (pimelic)	COOH.CHPr ^a .CH ₂ .COOH	"	....	abt. 114	Laurent	A. C. [2], 66, 163	iv., 646
" " "	"	"	....	114	Kachler	A., 169, 168	27, 154
" " "	"	"	....	114	Mulck	A., 180, 45	29, 925
" " "	"	"	....	114	Hjelt	B., 16, 2621	46, 297

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isopropylsuccinic acid (pimelic)	COOH.CHPr ^g .CH ₂ .COOH	C ₇ H ₁₂ O ₄	....	114	Roser	B., 15, 295; A., 220, 271	42, 717; 46, 423
" " "	"	"	....	114	Waltz	B., 15, 609; A., 214, 60	42, 948; 44, 46
Pimelic acid	C ₅ H ₁₀ (COOH) ₂	"	high temp.	134	Bromeis	A., 35, 104	iv., 646
Ethylmethyl succinic acid	COOH.CHEt.CHMe.COOH	"	....	158-160	Young	43, 180	
Isobutylmalonic acid	CHMe ₂ .CH ₂ .CH(COOH) ₂	"	....	107	Guthzeit	A., 209, 236	42, 39
Diethylmalonic acid	COOH.CEt ₂ .COOH	"	....	112	Conrad	B., 12, 749	36, 707
" " ....	"	"	....	121	....	A., 204, 138	
Diethyl malonate	COOEt.CH ₂ .COOEt	"	195	Liquid	Finkelstein	A., 133, 349	vi., 801
" "	"	"	196	....	Bischoff	B., 15, 1109	42, 1188
" "	"	"	197.7-198.2 c.	....	Perkin	....	45, 508
Methylic ethylic succinate	COOMe.CH ₂ .CH ₂ .COOEt	"	208.2	....	Weger	A., 221, 61	46, 11
Methyl isomannide	MeO.CH ₂ .CH.CH : CH.CH. O O	"	....	44-45	Fauconnier	B. S., 41, 18	46, 111
Ethylic carboglycollate	EtO.CO.OCH ₂ .COOEt	C ₇ H ₁₂ O ₅	abt. 240	Liquid	Heintz	A., 154, 264	vii., 255
Glycerin diacetin	C ₃ H ₅ (OH)(OAc) ₂	"	280	l. —40	Berthelot	A. C. [3], 41, 278	i., 25
" " (isomer)	"	"	250-253	....	....	J. [1876], 343	
Isobutyl tartronic acid	Me ₂ .CH.CH ₂ .C(OH).(COOH) ₂	"	....	110-114	Guthzeit	A., 209, 238	42, 40
Oxypyrolic acid ....	....	(?)	....	130	Arppe	A., 95, 242	iv., 319
Quinic acid ....	....	C ₇ H ₁₂ O ₆	....	155	Woskresensky	A., 24, 257	v., 10
" " ....	....	"	....	161.6 c.	Hesse	A., 114, 292	"
" " ....	....	"	....	161.6 c.	Zwenger & Siebert	A., 1, 79	
Ethylvaleryl oxide	Et.O.CH : CMeEt	C ₇ H ₁₄ O	111-114	....	Eltekoff	B., 10, 706	
Heptene oxide ....	....	"	145	....	De Clermont	B. S. [2], 13, 404	vii., 868
Enanthol	C ₆ H ₁₃ .COH	"	151-152	Liquid	Städeler	J. [1857], 360; J. p., 72, 240	iv., 175; 26, 1075
"	CH ₃ .(CH ₂) ₅ .COH	"	152 (748.6)	Liquid	Cross	32, 124	
"	"	"	153-154 c.	....	Perkin	B., 15, 2802	43, 47
"	"	"	152-154	....	"	....	43, 81
"	"	"	152.2-153.2 c.	....	"	....	45, 477
"	"	"	155-160	....	Bruylants	B., 8, 415	
"	"	"	154 c.	....	Grimshaw & Schorlemmer	26, 1075	
"	"	"	155 c.	....	Tilley	A., 75, 249; P. M., 33, 81	26, 1073; iv., 175
"	"	"	155-156	....	Williamson	A., 61, 38	iv., 175
"	"	"	155-156	....	Bouis	J., 8, 524	
"	"	"	155-157	....	Neison	....	27, 508
"	"	"	154.2-154.5 (748)	....	Brühl	A., 200, 102; 203, 28	
"	"	"	155-158	....	Bussy	J. P. [3], 8, 321	iv., 175
"	isomer	"	161-164	....	Fittig	J., 13, 319	
Metœnanthol ....	....	"	230	5-6	Bussy	J. P. [3], 8, 321	iv., 176
" ....	....	"	260	5-6	Bruylants	B., 8, 415	
Enanthol	Me(CH ₂) ₆ .CH(OH)	(C ₇ H ₁₄ O) ₄	d. 115	52-53	Perkin	B., 16, 1034	43, 80
	Me.(CH ₂) ₄ .CH.CH(OH)						
	Me.(CH ₂) ₄ .CH.CH(OH)						
	Me.(CH ₂) ₄ .CH.CO						
" ....	....	(C ₇ H ₁₄ O) _n	....	51-52	Bruylants	B., 8, 415	43, 46
" ....	....	"	260	....	Borodine	B.	
Amylmethyl ketone	Me.CO.(CH ₂) ₄ .CH ₃	C ₇ H ₁₄ O	155-156	....	Schmidt	B., 5, 597	vii., 251
" "	"	"	150-152	....	Schorlemmer	A., 161, 279; P. T. [1872], 111	vii., 642; 25, 1086
" "	"	"	149-152	....	Schorlemmer	....	26, 322
" "	"	"	146-149	....	Morgan	....	28, 305
Isoamylmethyl ketone	Me.CO.CH ₂ .CH ₂ .CHMe ₂	"	144-146	....	Mixer	B., 7, 501	27, 785
" "	"	"	145	....	Demarçay	C. R., 86, 1085	34, 661
" "	"	"	144 c.	....	Popoff	Z. C. [1865], 578	vii., 251

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isoamylmethyl ketone	Me.CO.CH ₂ .CH ₂ .CHMe ₂	C ₇ H ₁₄ O	143-145	....	Grimshaw	26, 319	vii., 643
" "	"	"	142-144 u. c.	Liquid	Rohn	A., 190, 305	34, 486
" "	"	"	155-156	....	Schmidt	B., 5, 604	
Amylmethyl ketone	Me.CO.CH ₂ .CMe ₃	"	125-130	....	Butlerow	A., 189, 78	34, 125
" "	Me.CO.CHEt ₂	"	137.5-139	....	Frankland & Duppa	A., 138, 212	vi., 768
" "	"	"	135-137 u. c.	....	Ceresole	B., 16, 830	
" " (?)	"	"	182.5	....	Geuther	J. F. P., 6, 160	
" "	Me.CO.CEtMe ₂	"	131.5-132.5	....	Wischnegradsky	B., 8, 541	28, 878
" "	"	"	142-146	....	Schorlemmer	26, 319	vii., 643
Butylethyl ketone	Et.CO.CH ₂ .CHMe ₂	"	132-134	....	Geuther, Fröhlich and Loos	A., 202, 327	38, 623
" "	Et.CO.CMe ₃	"	125.5-126	....	Wischnegradsky	B., 8, 541	28, 878
Dipropyl ketone	Pr ^a .CO.Pr ^a	"	144	....	Schmidt	B., 5, 597	vii., 228; 25, 892
" "	"	"	144	....	Chancel	A., 52, 296; A. C. [3], 12, 146	25, 410
" "	"	"	144-145	....	Jahn	B., 13, 2116	
" "	"	"	143-146	....	Grimm	A., 157, 249	24, 387
" "	"	"	144	....	Friedel	J., 11, 295	i., 698
" "	"	"	139-144	....	Kurtz	A., 161, 207	25, 410
" " (?)	"	"	175-185	....	Freund	A., 118, 33	vi., 380
Propylisopropyl ketone	Pr ^a .CO.Pr ^β	"	137-141	....	Morgan	....	28, 304
Diisopropyl ketone	Pr ^β .CO.Pr ^β	"	124-126	Liquid	Münch	A., 180, 327	30, 67
" "	"	"	124-126	....	Münde	B., 7, 1370	28, 247
" "	"	"	129-130	....	Popoff	B., 6, 1255	
" " (?)	" (?)	"	135-137	....	Markownikoff	"	
" " (?)	" (?)	"	145-150	....	Destrem	B., 16, 227	
Hexylic formate	H.CO.O.(CH ₂) ₅ .Me	C ₇ H ₁₄ O ₂	146	....	Freutzh	B., 16, 745	44, 1075
Amylic acetate	CH ₃ .(CH ₂) ₄ .OAc	"	148.4 (737)	....	Lieben and Rossi	A., 159, 74; G. I., 1, 314	vi., 1137; vii., 8; 24, 1034
Isoamylic acetate	CHMe ₂ .CH ₂ .CH ₂ .OAc	"	140	....	Wanklyn	18, 30	vi., 13
" "	"	"	140	....	Schorlemmer	J. [1866], 527; P. R. S., 15, 131	vi., 13; 106
" " inactive	"	"	138.6 (743.5)	Liquid	Balbiano	G. I., 6, 229	31, 293
" "	"	"	135-137	....	Conrad	A., 186, 228	32, 435
Amylic acetate	C ₆ H ₁₁ .OAc	"	138	....	Friedel and Crafts	J. [1864], 460	vi., 13
" " isomeric	"	"	135-140	....	Schorlemmer	P. T. [1872], 111	vii., 63
" " "	"	"	135-140	....	"	"	"
" "	"	"	137.6	....	Kopp	A., 96	
" "	"	"	133.3	Liquid	"	"	i., 21
" "	"	"	133	....	Delffs	J., 7, 26	
" "	CH ₃ .CH ₂ .CH ₂ .CHMe.OAc	"	133-135	Liquid	Wurtz	A. C. [4], 3, 137; Z. C., 11, 490	vi., 113
" "	CHEt ₂ .OAc	"	132	....	Wagner & Saytzeff	A., 175, 366	28, 628
" "	CHMe ₂ .CHMe.OAc	"	125	Liquid	Wurtz	A. C. [4], 3, 137	vi., 113
" "	CMe ₂ .Et.OAc	"	124-125	....	Coninck	C. R., 92, 413	40, 444
" "	"	"	125	....	Cahours	A., 96	
" "	"	"	124.5-125.5	....	Menshutkin	B., 15, 2512	
" "	"	"	124-124.5	....	Flavitsky	A., 179, 349	
Butylic propionate	CH ₃ .CH ₂ .COO.(CH ₂) ₃ .CH ₃	"	145.99 c.	....	Linnemann	A., 161, 194; A., 162, 39	25, 396; vii., 203
Isobutylic propionate	CH ₃ .CH ₂ .COO.CH ₂ .CHMe ₂	"	135.7 (764)	....	Pierre and Puchot	Z. C., 12, 660; A. C. [4], 22, 324	
" "	"	"	136.8 (760)	....	Schumann	G. J. C., 1881	
" "	"	"	136.8	....	Elsasser	A., 218, 302	44, 967
" "	"	"	135.8; 318.7 c.t.	....	Pawlewski	B., 15, 2463	44, 276
Propylic butyrate	CH ₃ .CH ₂ .CH ₂ .COOPr ^a	"	144.3; 326.6 c.t.	....	"	"	"
" "	"	"	143.42	....	Linnemann	A., 161, 33; 162, 39	vii., 563, 1013; 25, 235
" "	"	"	142.7	....	Elsasser	A., 218, 302	44, 967
" "	"	"	139-141	....	Chancel	C. R., 68	vi., 964

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Propylic butyrate	$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOPr}^a$	$\text{C}_7\text{H}_{14}\text{O}_2$	137.25 (765)	....	Pierre and Puchot	C. R., 66, 302	vi., 964
" isobutyrate	$\text{CHMe}_2\text{COO.Pr}^a$	"	135.25	....	" "	C. R., 75, 1594 ; A. C. [4], 22, 295	26, 260
" "	"	"	133.9	....	Elsasser	A., 218, 302	44, 967
" "	"	"	133.4 ; 316.0 c.t.	....	Pawlewski	B., 15, 2460	44, 276
" "	"	"	130-133	....	....	M. C., 2, 689	
Isopropylic butyrate ..	$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOPr}^b$	"	abt. 130	....	Berthelot	A., 96	v., 890
" " (inactive)	"	"	128 (755)	Liquid	Silva	A., 153, 135 ; Z. C., 12, 508	vi., 966
" "	"	"	135.5	....	....	A., 163, 272 ; M. C., 2, 690	
" isobutyrate	$\text{CHMe}_2\text{COOPr}^b$	"	118-121	....	....	M. C., 2, 691	
Ethylic valerate	$\text{CH}_3(\text{CH}_2)_3\text{COOEt}$	"	144.6 c. (736.5)	....	Lieben and Rossi	A., 165, 117	26, 368
" "	"	"	144.5	....	Kehrer and Tollens	A., 206, 239	40, 411
" "	"	"	144-145	....	Fitz	B., 14, 1084	
" isovalerate	$\text{CHMe}_2\text{CH}_2\text{COOEt}$	"	135.5 (760)	....	Pierre and Puchot	C. R., 75, 1594 ; 76, 1332 ; A. C. [4], 20, 234	vii., 62, 1200 ; 26, 260, 1017
" "	"	"	134.3	....	Elsasser	A., 218, 302	44, 967
" "	"	"	135-135.25 c.	....	Perkin	....	45, 501
" "	"	"	134-135 (758.4)	....	Frankland & Duppa	A., 160, 266	
" "	"	"	133-134	Liquid	Berthelot	G. J. C., 1854	v., 979
" valerate ....	....	"	133.5	Liquid	Otto	A., 25, 62	"
" " ....	....	"	133	Liquid	Kopp	J., 7, 441	"
" "	CHEtMe.COEOEt	"	132-133	Liquid	Saur	A., 188, 262 ; B., 8, 1037	34, 27 ; 29, 370
" "	"	"	133.5	Liquid	Pagenstecher	A., 195, 119	36, 456
" "	"	"	134.3 (760)	....	Schumann	A., 208, 262	
" " ....	....	"	131-133	....	....	C. R., 94, 1652	
" " ....	....	"	131	....	Delffs	....	v., 979
" " ....	....	"	131	....	Kopp	A., 96	
" "	CMe_3COOEt	"	118.5	Liquid	Friedel and Silva	C. R., 77, 48	26, 1127
" "	"	"	118.5 (760)	l.-20	Butlerow	B., 7, 728 ; A., 173, 372	27, 1084 ; 28, 250
Methylic caproate	$\text{CHMe}_2\text{CH}_2\text{CH}_2\text{COOMe}$	"	150	Liquid	Fehling	A., 53, 410	i., 744
Heptylic acid (enanthylic)	$\text{CH}_3(\text{CH}_2)_5\text{COOH}$	"	....	l. f. m.	Schorlemmer	B., 6, 58	26, 617
" " "	"	"	222-224 c.	-10.5	"	B., 6, 59	"
" " "	"	"	223-224 (763)	-10.5	Grimshaw & Schorlemmer	26, 1076	vii., 870
" " "	"	"	223-224 (762.7)	-8	Franchimont	B., 5, 786 ; A., 165, 237	vii., 646, 869 ; 26, 55
" " "	"	"	223-224	....	Geuther & Fröhlich	A., 202, 288	38, 623
" " " ....	"	"	....	-10.5	Baeyer	B., 10, 1286	34, 4
" " "	"	"	222.4 (743.4)	-10	Lieben & Janecek	A., 187, 139	32, 881
" " "	"	"	221-223	s.-13 to -14	Cahours & Demarcay	C. R., 89, 331	36, 1037
" " "	"	"	221-225	....	W. H. Perkin, jun.	....	43, 69
" " "	"	"	220-225	....	"	B., 15, 2803	43, 48
" " "	"	"	218-228	....	"	....	43, 59
" " "	"	"	222.5-223.5 c ; 222-222.5 c.	....	W. H. Perkin	....	45, 484
" " "	"	"	220-222	....	Krafft	B., 11, 1415	34, 853
" " "	"	"	219-222 u. c.	....	Schorlemmer	P. T. [1862], 121 ; [1872], 111	vii., 642 ; 26, 318, 1074 ; 25, 1086
" " "	"	"	218.5-220 (756.5)	....	Landolt	P. A., 117, 379	26, 1074
" " "	"	"	219 c.	abt. -5	Mehlis	A., 185, 358	34, 134
" " "	"	"	218 (726)	....	Stœdeler	J. p., 72, 240 ; J. [1857], 148	26, 1074 ; iv., 177

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Heptylic acid (œnanthyl)ic....	$\text{CHMePr}^{\beta}.\text{CH}_2.\text{COOH}$	$\text{C}_7\text{H}_{14}\text{O}_2$	220	....	Geuther, Fröhlich, and Loos	A., 202, 322	38, 623
" " "	?	"	212	....	Strecker	Lehrb., 5, 96	iv., 177; 26, 1073
" " "	$\text{CHMe}_2.(\text{CH}_2)_3.\text{COOH}$	"	212-213	Liquid	Poetsch	A., 218, 56	44, 729
" " "	$\text{CHMe}_2.(\text{CH}_2)_3.\text{COOH}$ or $\text{CH}_3.(\text{CH}_2)_3.\text{CHMe}.\text{COOH}$	"	210-213 u. c.	Liquid	Grimshaw	A., 166, 168	26, 314; vii., 642
" " "	"	"	209-213	....	Schorlemmer	26, 320	vii., 643
" " "	$\text{CH}_3.(\text{CH}_2)_3.\text{CHMe}.\text{COOH}$	"	211-213	....	Hecht and Munier	B., 11, 1781	36, 140
" " "	"	"	211.5 (745.8)	viscid —25	Hecht	A., 209, 309	42, 40
" " "	$\text{CEt}_2\text{Me}.\text{COOH}$	"	207-208	....	Idanoff	B. S. [2], 26, 450	31, 454
" " "	Probably tertiary	"	202-203	20-25	Menschutkin	A. C. [5], 23, 14	40, 886
" " "	?	"	148 d.	Liquid	Tilley	A., 39, 160	iv., 177; vii., 869; 26, 1072
Methylpropylallylene glycol	$\text{C}_3\text{H}_7.\text{OH}.\text{CH}.\text{C}(\text{OH})\text{CHMe}$ or $\text{C}_3\text{H}_7.\text{CH}:\text{C}(\text{OH}).\text{CH}(\text{OH})\text{Me} + \text{H}_2\text{O}$	"	195.6 c.	89.5	Morris	C. N., 20, 76	41, 172
" " (hydrate)	"	"	....	106	"	"	"
Acroleinacetal ....	....	"	140-145	....	....	As, 3, 184	
Ethylisobutylic carbonate	$\text{CO}(\text{OEt})(\text{O}.\text{CH}_2.\text{CHMe}_2)$	$\text{C}_7\text{H}_{14}\text{O}_3$	160.1 c.	....	Röse	A., 205, 246	40, 252
Dipropyl carbonate	$\text{CO}(\text{OPr})_2$	"	156-160	....	Cahours	C. R., 77, 745	27, 38
" "	$\text{CO}(\text{OPr}^a)_2$	"	160-165	....	Rœmer	B., 6, 1102	27, 39
" "	"	"	168.2	....	Röse	A., 205, 231	40, 252
Propyl ethylglycollate	$\text{CH}_2(\text{OEt}).\text{COOPr}^a$	"	166	....	Schreiner	B., 12, 179; A., 197, 8, 21	36, 522
Ethylis propylglycollate	$\text{CH}_2(\text{OPr}^a).\text{COOEt}$	"	184.5	....	"	"	"
" ethyllactate	$\text{CH}_3.\text{CH}(\text{OEt}).\text{COOEt}$	"	156.5 (757)	....	Wurtz	A. C. [3], 59, 174	iii., 464
" "	"	"	155	....	Schreiner	A., 197, 13, 21; B., 12, 179	36, 522
" α -methoxybutyrate	$\text{CH}_3.\text{CH}_2.\text{CH}(\text{OMe}).\text{COOEt}$	"	148 c.	....	"	"	"
" ?- "	"	"	159-161	Liquid	Duvillier	C. R., 88, 598; A. C. [5], 17, 553	36, 523
Methylis diethoxalate	$\text{CEt}_2(\text{OH}).\text{COOMe}$	"	165	Liquid	Frankland & Duppa	P. T. [1866], 309; A., 135, 27	iv., 274
Ethylis ethomethoxalate	$\text{CMeEt}(\text{OH}).\text{COOEt}$	"	165.5	Liquid	"	"	iv., 275
Methylis α -ethoxybutyrate	$\text{CH}_3.\text{CH}_2.\text{CH}(\text{OEt}).\text{COOMe}$	"	156-158	....	Duvillier	A. C. [5], 17, 540	
Ethylis α -oxyisovalerate	$\text{CHMe}_2.\text{CH}(\text{OH}).\text{COOEt}$	"	175 p. d.	Liquid	Schmidt and Sachtleben	A., 193, 110	36, 140
Ethylis β - "	$\text{Me}_2.\text{C}(\text{OH}).\text{CH}_2.\text{COOEt}$	"	180	....	....	A., 197, 73	
Isoamylglycollic acid	$\text{CH}_2(\text{OC}_5\text{H}_{11}).\text{COOH}$	"	235	Liquid	Siemens	J. [1861], 449	ii., 917
α -Ethoxyisovaleric acid	$\text{CHMe}_2.\text{CH}(\text{OEt}).\text{COOH}$	"	....	91-92	....	....	vii., 883
Hydroxyheptylic acid	$\text{CH}_2(\text{OH}).(\text{CH}_2)_5.\text{COOH}$	"	....	59-60	Helms	B., 8, 1169	29, 374
" "	$\text{CH}_3(\text{CH}_2)_4.\text{CH}(\text{OH}).\text{COOH}$	"	....	65	Ley	B., 10, 231	32, 310
Hydroxyisohexylylic acid	$\text{C}_5\text{H}_{11}.\text{CH}(\text{OH}).\text{COOH}$	"	....	60.5	Frankland & Duppa	Z. C. [1866], 492	iv., 276
Diethylethylenelactic acid	....	"	....	38-39	....	J. p. [2], 23, 196	
β - " "	$\text{CEt}_2(\text{OH}).\text{CH}_2.\text{COOH}$	"	see J. p. [2], 23, 196	71-73 (?)	Schirokoff	B., 12, 2375	38, 382
Ethylene monoisovalerate	$\text{CH}_2(\text{OH}).\text{CH}_2(\text{O}.\text{OC}.\text{CH}_2.\text{Pr}^{\beta})$	"	abt. 240	....	Lourenço	A., 114, 123	
Butyrylglycerin	$\text{C}_3\text{H}_5.(\text{OH})_2.(\text{O}.\text{C}_4\text{H}_7\text{O})$	$\text{C}_7\text{H}_{14}\text{O}_4$	....	Liquid — 40	Berthelot	A. C. [3], 41, 261	i., 696
Bornesite	....	$\text{C}_7\text{H}_{14}\text{O}_6$	....	175	Girard	C. R., 73, 426	24, 915; vii., 206
" " " ....	....	"	....	200	"	C. R., 77, 995	27, 170
Methylether of dambose	....	"	....	175	....	Z. C. [1871], 335	
Amylethyloxyde	$\text{CHMe}_2.\text{CHMe}.\text{OEt}$	$\text{C}_7\text{H}_{16}\text{O}$	102-103 (742)	Liquid	Reboul & Truchot	C. R., 64, 1243; A., 144, 244	vi., 113
Isoamylethyloxyde	$\text{CHMe}_2.\text{CH}_2.\text{CH}_2.\text{OEt}$	"	112	Liquid	Williamson	4, 103, 234; A., 77, 37	i., 205; ii., 537
" " "	"	"	111-113	....	Guthrie	A., 81, 79	
" " "	"	"	112	....	Reboul & Truchot	A., 105, 37	vi., 113
" " "	"	"	112 113	....	Harting	J. p. [2], 23, 461	40, 794

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Heptyl alcohol	$\text{CH}_3(\text{CH}_2)_5\text{CH}_2\text{OH}$	$\text{C}_7\text{H}_{14}\text{O}$	179	....	Wills	6, 307	iii., 146
" "	"	"	178.5	....	Petersen	A., 117, 69	"
" "	"	"	177-177.5	....	Städeler	J. p., 62, 241	"
" "	"	"	175.5-177.5 c. (766)	Liquid	Grimshaw & Schorlemmer	26, 1081; 27, 1030	vii., 644, 868, 1025
" "	"	"	175.5 (764.1)	Liquid	Cross	....	32, 125
" "	"	"	170-178	....	Schorlemmer	A., 161, 279	25, 411; vii., 229
" "	"	"	174-176	....	Perkin	....	43, 87
" "	"	"	175-177 c.	....	"	....	45, 472
" "	"	"	170-175	....	Schorlemmer	P. R. S. [1872], 121	vii., 642; 25, 1086; 26, 318
" "	$\text{CHMe}_2(\text{CH}_2)_3\text{CH}_2\text{OH}$ or $\text{CH}_2(\text{CH}_2)_3\text{CHMe}.\text{CH}_2\text{OH}$	"	165-170	....	"	26, 320	vii., 643
" "	"	"	164	....	"	P. R. S., 14	vi., 696
" "	"	"	165	....	Grimshaw	26, 313	vii., 642
" "	?	"	165	....	Bouis and Carlet	A. C. [3], 44	iii., 146
" "	"	"	165	....	" "	A., 124, 352	26, 1081
" "	"	"	165.5	....	Schorlemmer	P. R. S., 14	vi., 696
" "	"	"	164.5	....	"	"	vi., 64, 696
" "	(from different sources)	"	163-165; 164-167; 163-168; 164.5	....	"	A., 136, 257	
" "	$\text{CH}_3(\text{CH}_2)_4\text{CH}(\text{OH}).\text{CH}_3$	"	160-162	....	Schorlemmer	26, 319; P. T. [1872], 111	vii., 229, 642; 25, 411, 1086
" "	"	"	155-160	....	Faget	A., 124, 355	iii., 146
" "	"	"	155-158	....	Morgan	A., 177, 308	26, 305
" "	"	"	155-157	....	Schorlemmer	P. T. [1878], 1	32, 866
" "	"	"	155.5	....	"	....	28, 209
" "	$\text{CHMe}_2.\text{CH}_2.\text{CH}_2.\text{CH}(\text{OH}).\text{CH}_3$	"	148-154	....	Purdie	....	39, 467
" "	" "	"	148-150	....	Schorlemmer	26, 320	vii., 643
" "	" "	"	148-150	l. — 16	Rohn	A., 190, 305	34, 468
" "	" "	"	146-148	....	Grimshaw	A., 166, 169	vii., 642; 26, 313
" "	$\text{C}_4\text{H}_9\text{CH}(\text{OH}).\text{Et}$	"	140-141	....	....	A., 177, 308; J. p. [2], 26, 109	
" "	$\text{CHMe}_2.\text{CH}_2.\text{CH}(\text{OH}).\text{Et}$	"	146-148	....	Wagner	B. S. [2], 36, 306	42, 377
" "	$\text{Pr}^a.\text{CH}(\text{OH}).\text{Pr}^a$	"	149-150	....	Kurtz	A., 161, 205	vii., 228, 1025; 25, 411
" "	$\text{Pr}^a.\text{CH}(\text{OH}).\text{Pr}^b$	"	140-141	....	Morgan	A., 177, 308	28, 304
" "	$\text{Pr}^b.\text{CH}(\text{OH}).\text{Pr}^b$	"	131-132	Liquid	Münch	A., 180, 234	30, 68
" "	"	"	130-131	Liquid	Münde	B., 7, 1370	28, 247
" "	CEt_2OH	"	140-142	l. — 20	Nahapetian	Z. C. [2], 7, 274	24, 1035; vii., 1182
" "	"	"	141	....	Ladenburg	A., 164, 300	26, 50
" "	$\text{CHMe}_2.\text{CH}_2.\text{C}(\text{OH}).\text{Me}_2$	"	129-131	l. — 20	Pawlow	B., 7, 729	27, 1076
" "	" (?)	"	130	....	Markownikoff	Z. C. [2], 7, 263	24, 1028
" "	"	"	130	....	....	A., 173, 192	
" "	$\text{CHMeEt}.\text{C}(\text{OH}).\text{Me}_2$	"	138-140 (750)	Liquid	Kaschirsky	C. C. [1881], 278	42, 37
" "	"	"	138-140	l. — 30	"	B., 11, 985	36, 46
" "	$\text{CMe}_3.\text{C}(\text{OH}).\text{Me}_2$	"	131	17	Butlerow	A., 177, 176	28, 1249
" "	"	"	131-132	17	"	B., 8, 166	
" "	(hydrate)	$+\frac{1}{2}\text{H}_2\text{O}$	....	83	"	B., 8, 165	
" "	"	"	....	83	Kaschirsky	B., 14, 2065	
" "	"	"	....	81	Bogomolez	B., 14, 2066	
" "	$\text{CPr}^a\text{EtMe}(\text{OH})$	"	135-138	Liquid	Pawlow	B., 9, 1311; C. C., 76, 770; A., 187, 104	31, 58; 32, 732
" "	$\text{CPr}^b\text{EtMe}(\text{OH})$	"	124-127	....	"	"	"
" "	tertiary	"	123-132	....	....	Z. C. [1871], 269	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethylpropyl acetal	$\text{CH}_3\text{CH}(\text{OEt})(\text{OPra})$	$\text{C}_7\text{H}_{16}\text{O}_2$	124-126	....	Bachmann	A., 218, 38	44, 727
Methylbutyl acetal	$\text{CH}_3\text{CH}(\text{OMe})(\text{OC}_4\text{H}_9)$	"	125-127	....	"	"	"
Propylidene acetal	$\text{Et.CH}(\text{OEt})_2$	"	93	Liquid	Gramont	C. R., 97, 173	46, 35
Dimethyl valeral	$\text{C}_4\text{H}_9\text{CH}(\text{OMe})_2$	"	124	....	Alsberg	J., 17, 486	v., 974
Trimethylethyl glycol	$\text{CMe}_2\text{OH.CMeEtOH}$	"	177	....	Wurtz	A., 179, 340	29, 545
Triethylic orthoformate	$\text{CH}(\text{OEt})_3$	$\text{C}_7\text{H}_{16}\text{O}_3$	145	....	Pinner	B., 16, 1643	44, 1089
" "	"	"	144	....	"	B., 16, 356	"
" "	"	"	145-146	l. — 18	Williamson & Kay	P. R. S., 7, 135 ; A., 92, 347	vi., 622
" "	"	"	146-148	l. — 18	Ladenburg and Wichelhaus	B. S. [2], 9 ; A., 152, 164, 356	"
" "	"	"	145-147	....	Deutsch	B., 12, 116	36, 453
Diethyl glycerol (diethyline)	$\text{C}_5\text{H}_8(\text{OH})(\text{OEt})_2$	"	abt. 191	....	Berthelot	J., 7, 450	"
Methylpropylallylene glycol	$\text{C}_7\text{H}_{12}(\text{OH})_2\text{H}_2\text{O}$	"	....	106 d.	Morris	....	41, 172
Phthalic anhydride	$\text{C}_6\text{H}_4\text{.CO.O.CO=1.2}$	$\text{C}_8\text{H}_4\text{O}_3$	....	105	Laurent	A., 19, 42	iv., 631 ; vi., 944
" "	" "	"	275	....	Troost	G. J. C., 1879	"
" "	" "	"	277	....	Græbe	B., 5, 15	25, 295
" "	" "	"	275	Solid	Ador	A., 164, 229	vii., 979 ; 26, 66
" " ....	" "	"	....	127	"	A. C. [4], 26, 417	26, 393
" " ....	" "	"	....	127	Anschütz	B., 10, 326	"
" "	" "	"	276	127	"	B., 10, 1881	34, 136
" " ....	" "	"	....	128	Hermann	....	vi., 944
" "	" "	"	276	128	Lossen	A., 144, 47	"
" "	" "	"	275	127-128	Carius	G. J. C., 1868	994
" " ....	" "	"	....	128	A. J. Smith	....	35, 791
" " ....	" "	"	....	128	Piccard	A., 196, 48	"
" " ....	" "	"	....	129	Græbe and Born	....	vi., 944
" " ....	" "	"	....	128.5-129.5	Japp and Miller	....	39, 223
Hydroxyphthalic anhydride	$\text{C}_6\text{H}_3(\text{OH}).\text{CO.O.CO=1.2.3}$	$\text{C}_8\text{H}_4\text{O}_4$	....	145	Jacobsen	B., 16, 1962	44, 1124
" "	" " =1.3.4	"	....	165-166	Miller	B., 11, 1193	34, 983
" "	" " "	"	s. b. 200-210	165-166	Baeyer	B., 10, 1082	32, 785
Coumarone	$\text{C}_6\text{H}_4\text{.CH:CH.O}$	$\text{C}_8\text{H}_6\text{O}$	168.5-169.5	l.—18	Fittig and Ebert	A., 216, 169	44, 474
Benzacrylic acid	$\text{C}_6\text{H}_5\text{.C.COOH}$	$\text{C}_8\text{H}_6\text{O}_2$	....	101	Pfankuch	J. p. [2], 6, 97	26, 363
Isotoylic aldehyde	meta-	"	199	Liquid	Gundelach	B. S. [2], 26, 43	30, 514
Hydroxyphenylacetic lactone	$\text{C}_6\text{H}_4\text{.CH}_2\text{CO.O=1.2}$	"	237	49	Baeyer and Fritsch	B., 17, 973	46, 1022
Oxymethylbenzoic anhydride	$\text{C}_6\text{H}_4\text{.CH}_2\text{O.CO=1.2}$	"	....	65	Kolbe and Wischin	19, 339	vi., 81, 943
" " ....	" "	"	....	67	" "	Z. C. [2], 2, 315	34, 66
" " ....	" "	"	....	73	Hessert	B., 10, 1445 ; 11, 238	"
Isophthalic aldehyde....	$\text{C}_6\text{H}_4(\text{COH})_2=1.3$	"	....	88	Grimaux	C. R., 83, 825	31, 206
Terephthalic aldehyde	" =1.4	"	....	114-115	"	"	"
" "	"	$(\text{C}_6\text{H}_6\text{O}_2)_a$	....	170-174	"	"	"
Phenylglyoxylic acid	$\text{C}_6\text{H}_5\text{.CO.COOH}$	$\text{C}_8\text{H}_6\text{O}_3$	....	65-66	Claisen	B., 10, 844	32, 616
" " ....	"	"	....	65-66	"	B., 10, 430	32, 423
" " ....	"	"	....	111	Hübner & Buchka	B., 10, 479	32, 485
Salicylglycollic anhydride	$\text{C}_6\text{H}_4\text{.CH}(\text{OH}).\text{COO}$	"	....	crystalline	Plöschl	B., 14, 1317	42, 515
Piperonal	$\text{C}_6\text{H}_3(\text{COH}).\text{O.CH}_2\text{O=1.3.4}$	"	263	37	Fittig and Mielck	A., 152, 36	vi., 948
β -Hydroxyisophthalaldehyde	$\text{C}_6\text{H}_3\text{.OH}(\text{COH})_2=1.2.6$	"	....	88	Voswinkel	B., 15, 2023	44, 190
α - " "	" =1.2.4	"	....	108	"	B., 15, 2022	"
Phthalic acid	$\text{C}_6\text{H}_4\text{.}(\text{COOH})_2=1.2$	$\text{C}_8\text{H}_6\text{O}_4$	....	129	Liebermann	A., 183, 225	31, 601
" " ....	" "	"	....	180	Carius	G. J. C., 1868	"
" " ....	" "	"	....	170-180	"	Z. C. [2], 4, 705	vi., 941
" " ....	" "	"	....	182	Japp and Miller	....	39, 223
" " ....	" "	"	....	184	Lossen	A., 144, 71	vi., 941
" " ....	" "	"	....	185	Petersen	B., 6, 377	26, 1133

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Phthalic acid(perfect crystals)	$C_6H_4(COOH)_2=1.2$	$C_8H_6O_4$	....	213	Ador	G. J. C., 1872	
" " (ditto powdered)	....	"	....	203	"	"	
Isophthalic acid	" =1.3	"	....	275	Ador & Oppenheim	Z. C. [2], 7, 22	24, 131
" " ....	" "	"	....	a. 300	Petersen	B., 6, 377	26, 1133
" " ....	" "	"	....	a. 300	Fittig and Velguth	Z. C. [2], 3, 526	vi., 942
" " ....	" "	"	....	a. 300	Meyer	A., 156, 265	vii., 134, 978
" " ....	" "	"	....	310-315	Tilden	45, 46	
" " ....	" "	"	....	a. 320	Korner & Monselise	G. I., 6, 133	31, 81
Terephthalic acid	" =1.4	"	....	n. f.	....	....	v., 725
" " ....	" "	"	....	n. f.	....	....	vi., 942
" " ....	" "	"	....	n. f. a. 300	Petersen	B., 6, 377	26, 1133
" " ....	" "	"	....	s. w. m.	Carnelley	....	29, 19
" " ....	" "	"	....	n. f.	"	....	32, 658
Hydroxyphenylglyoxylic acid	$C_6H_4(OH)(CO.COOH)=1.2$	"	....	43-44	Baeyer and Fritsch	B., 17, 974	
Piperonylic acid	$C_6H_3(COOH).O.CH_2.O=1.3.4$	"	....	227	Fittig and Remsen	A., 159, 139 ; Z. C. [2], 7, 289	vii., 984 ; 24, 936, 1051
" "	" "	"	sb. b. 227	227.5-228.5	" "	Z. C. [2], 6, 101	vi., 949
" " ....	" "	"	....	229	Jobst and Hesse	B., 11, 1031	34, 733
Aldehydo-hydroxybenzoic acid	$COOH.OH.CO=1.3.6$	"	d.	Liquid	Tiemann and Landshoff	B., 12, 1340	
" " "	" =1.2.3	"	....	166	Reimer & Tiemann	B., 9, 1273	31, 83
" " "	" "	"	....	179	" "	B., 10, 1565 ; 12, 1341	34, 227
" " "	" =1.3.4	"	....	234	Tiemann and Landshoff	B., 12, 1335	36, 928
" " "	" =1.4.5	"	....	243-244	Reimer & Tiemann	B., 9, 1274 ; 10, 1567 ; 12, 1340	31, 83
" " "	" =1.2.5	"	....	248-249	" "	B., 9, 1271 ; 10, 1564 ; 12, 1340	"
Resorecyl dialdehyde....	$(OH)_2.(COH)_2=1.3.1.?$	"	....	127	Tiemann and Lewy	B., 10, 2211	34, 423
Hydroxyphthalic acid	$(COOH)_2.OH=1.2.4$	$C_8H_6O_5$	....	177-180	Jacobsen	B., 14, 42	40, 599
" " ....	" "	"	....	abt. 180	Baeyer	B., 10, 1079	32, 785
" " ....	" "	"	....	180	Goldschmidt and Herzig	M. C., 3, 135	42, 617
" " ....	" "	"	....	180 d.	Miller	B., 11, 1193	34, 983
" " ....	" "	"	....	181	Schall	B., 12, 833	36, 794
" "	" =1.2.3	"	....	200	Jacobsen	B., 16, 1962	44, 1124
Hydroxyisophthalic acid	" =1.3.2	"	....	239-240	Hesse	B., 10, 2195	
" " ....	" "	"	....	239	Schall	B., 12, 832	36, 794
" " ....	" "	"	....	240-243	Jacobsen	B., 11, 902	
" " ....	" "	"	....	243-244	Tiemann & Reimer	B., 10, 1570	34, 228
" "	" =1.3.4	"	....	270-280	Ost	J. p. [2], 14, 103	30, 522
" " ....	" "	"	....	283-285 c.	Jacobsen	B., 11, 378, 898	34, 583
" " ....	" "	"	....	283-284	Ciamician	W. A. 1, 346	40, 247
" " ....	" "	"	....	298-299 c.	Isles and Remsen	B., 11, 580	
" " ....	" "	"	....	300	Tiemann & Reimer	B., 10, 1572	34, 228
" " ....	" "	"	....	305-306 n.c.	Schall	B., 12, 833	36, 795
" "	" =1.3.5	"	....	288	Lonnie	B., 13, 705	40, 50
" " ....	" "	"	....	284-285	Heine	B., 13, 495	38, 549
" " ....	" "	"	....	280	Goldschmidt and Herzig	M. C., 3, 131	42, 617
Hydroxyterephthalic acid	" =1.4.3	"	....	n. f. 280	Schall	B., 12, 832	36, 794
" " ....	" "	"	....	s. w. m.	De la Rue and Müller	A., 121, 96 ; B., 12, 1341	
" " ....	" "	"	....	s. w. m.	Burkhardt	B., 10, 145	
" " ....	" "	"	....	s. w. m.	Jacobsen	B., 11, 381, & 571	
" " ....	" "	"	....	s. w. m.	Tiemann and Landshoff	B., 12, 1336	
" " ....	" "	"	....	d. 340	Barth and Schreder	B., 12, 1260	
" " ....	" "	"	....	n. f. a. 300	Schall	B., 12, 836	36, 794

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hydroxyterephthalic acid	(COOH) ₂ .OH=1.4.3	C ₈ H ₆ O ₅	....	n. f. a. 300	Tiemann	B., 12, 1341	
" " ....	" "	"	....	s. w. m. a. 300	Remsen and Hall	A. C. J., 2, 50	42, 186
" " ....	" "	"	....	n. f. 330	Fischli	B., 12, 621	36, 639
Noropianic acid	COOH.(OH) ₂ .COH=1.3.4.?	"	....	171 c.	Wright	J. [1877], 770	32, 547
Isonoropianic acid	" =1.3.4.5	"	....	240 d.	Tiemann and Mendelsohn	B., 10, 400	32, 488, 547
Resorcinoldicarboxylic acid....	(OH) ₂ .(COOH) ₂ =1.3.4.6.(?)	C ₈ H ₆ O ₆	....	192 d.	Tiemann and Lewy	B., 10, 2212	
β- " "	" =1.3.5.?	"	....	250 p. d.	Senhofer & Brunner	W. A., 80, 504 ; 81, 430, 1044	40, 266
α- " "	" =1.3.4.?	"	....	276	" "	"	40, 265
Gallocarboxylic acid	(OH) ₃ .(COOH) ₂ =1.2.3.4.5	C ₈ H ₆ O ₇	....	270 d.	" "	M. C., 1, 468 ; 4, 181	40, 267
Toluic aldehyde	C ₆ H ₄ .Me.COH=1.2	C ₈ H ₈ O	200	Liquid	Rayman	B. S. [2], 27, 498	32, 894
" "	" =1.3	"	198	....	Etard	A. C. [5], 22, 218	40, 582
" "	" "	"	200	Liquid	....	....	vi., 1108
" "	" "	"	200	....	Etard	C. R., 90, 534	38, 468
" "	" =1.4	"	204	Liquid	Cannizzaro	A., 96, 216	v., 864
" "	" "	"	204	....	....	A., 124, 254	
Phenylacetaldehyde	C ₆ H ₅ .CH ₂ .COH	"	192-193	-10	Etard	A. C. [5], 22, 248	40, 582
" "	"	"	193-194	....	....	A., 119, 254	
" "	"	"	205-207 d.	Liquid	Radziszewsky	B., 9, 372	30, 78
Phenylmethylketone (benzo-phenone)	Ph.CO.Me	"	199	....	Schmidt & Fieberg	B., 6, 498	27, 75
" "	"	"	198	....	Friedel	J., 10, 270	
" "	"	"	199-200	....	Popoff	B., 4, 720	24, 1057 ; 44, 990
" "	"	"	abt. 200	16-17	Friedel & Balsohn	B. S. [2], 35, 54	40, 279
" " ....	"	"	....	20.5	Stædel and Kleinschmidt	B., 13, 836	38, 659
Styrolene α-pinacolin	CHPh.O.CH ₂	"	260 (50)	Liquid	Breuer and Zincké	B., 11, 1402 ; A., 216, 301	34, 886
Phenoxyethylene	CH ₂ :CH.OPh	"	170	Liquid	Henry	C. R., 96, 1233	44, 803
Phenylethylene oxide (polymer)	....	(C ₈ H ₈ O) _n	....	171	Plochl	B., 16, 2815	46, 605
Tolylene anhydride ....	....	"	....	a. 275	Grimaux	C. R., 73, 1383	25, 136
Condensation product ....	....	"	....	300	....	A., 155, 343	
Furfuroquartenylic acid ....	....	C ₈ H ₈ O ₂	....	107	Schmidt	B., 14, 575	40, 573
Furfurocrotonic aldehyde	C ₄ H ₃ O.CH:CH.CH ₂ .COOH(?)	"	....	121 (111)	"	"	"
Furfurylidene acetone	C ₄ H ₃ O.CH:CH.CO.Me	"	135-137 (33-34)	39-40	Claisen	B., 14, 2469 ; see B., 14, 1459	42, 513
Phenylic acetate	CH ₃ COOPh	"	188	....	Scrugham	J., 7, 605	
" "	"	"	190	Liquid	"	7, 241	i., 24
" "	"	"	190-194	....	Guareschi	G. I., 3, 398	27, 262
" "	"	"	193	Liquid	Perkin & Hodgkinson	....	37, 487
" "	"	"	200	Liquid	Broughton	18, 21	vi., 18
Methylic benzoate	C ₆ H ₅ .COOMe	"	196	....	Ramsay	....	39, 64
" "	"	"	198.5 (761) ; 199.2 (746)	Liquid	Kopp	A., 94, 307	i., 552
" "	"	"	199.2	....	Buff	....	44, 990
" "	"	"	198.75	....	Scharling	G. J. C., 1856	
" "	"	"	198.5	....	Dumas and Peligot	A. C. [2], 58, 50	
Benzoyl carbinol	C ₆ H ₅ .CO.CH ₂ OH	"	....	86	Hunäus and Zincké	B., 10, 1487	34, 224
" "	"	" (?)	202-203	....	Emmerling & Engler	B., 6, 1006	
" " ....	"	"	....	84	Hunnius	B., 10, 2010	
" " (hydrate) ....	"	"	....	73-74	....	A., 216, 303	
" " ....	"	"	....	75	Hunnius	B., 10, 2010	
α-Toluic acid (phenyl acetic)	C ₆ H ₅ .CH ₂ .COOH	"	....	76.4	Schiff	G. I., 14, 181 ; A., 223, 24	46, 1089
" " " " ....	"	"	....	76	Zincké	B., 2, 738	
" " " " ....	"	"	....	76.5	Slawik	B., 7, 1053	
α- " " " " ....	"	"	....	75.5	Barbaglia	B., 5, 270	25, 490
" " " "	"	"	262 u. c. = 265.5 c.	76.5	Möller & Strecker	J., 12, 299	v., 863

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
<i>o</i> -Toluic acid (phenyl acetic)	$C_6H_5CH_2COOH$	$C_8H_8O_2$	....	75	Salkowski	B., 12, 649	
" " " "	"	"	....	76	"	B., 12, 701	36, 814
" " " "	"	"	....	76-76.4	Krant	A., 148, 242	
" " " "	"	"	....	76	Hodgkinson	....	37, 482
" " " "	"	"	....	76.5	Radziszewsky	B., 9, 372	30, 78
" " " "	"	"	....	76-77	Weddige	J. p. [2], 7, 99	26, 1241
Toluic acid (mixture)	$C_6H_4MeCOOH=1.3$	"	....	85	Tawildarow	Z. C., 6, 419	25, 692
" " " "	"	"	....	90	Wurtz	C. R., 70, 350	"
" " " "	"	"	....	90-93	Bieber and Fittig	Z. C. [6], 496	vi., 1100
" " " "	"	"	....	90-93	Ahrens	Z. C. [2], 5, 102	vii., 1175
" " " "	" =1.2	"	....	102	Bieber and Fittig	Z. C. [2], 6, 496	vi., 1100
" " " "	"	"	....	102	Ador and Rilliet	B., 12, 2301	
" " " "	"	"	....	102	Ramsay and Fittig	Z. C. [2], 7, 584	25, 491 ; vii., 1174
" " " "	"	"	....	102	" "	A., 168, 242	27, 68
" " " "	"	"	....	102	Weith	B., 7, 723	
" " " "	"	"	....	102	Merz and Weith	B., 10, 752	32, 602
" " " "	"	"	....	102.5	Kekulé	B., 7, 1007	28, 64
" " " "	"	"	....	104-105	Jannasch & Hübner	Z. C. [2], 7, 706 ; A., 170, 117	vii., 1208 ; 27, 258
" " " "	" =1.3	"	....	105	Fittig	B., 5, 954	26, 277
" " " "	"	"	....	105	"	B., 5, 268	vii., 1175
" " " "	"	"	....	105	Etard	A. C. [5], 22, 218	40, 582
" " " "	"	"	....	105-106	Brückner	B., 9, 406	30, 86
" " " "	"	"	....	106	Böttinger & Ramsay	A., 168, 253	27, 69
" " (cryst. from water)	"	"	....	105-106	Richter	B., 5, 426	25, 692
" " (sublimed)	"	"	....	108-109	"	"	"
" " " "	"	"	....	109	Tilden	45, 416	
" " " "	"	"	....	109-110	Böttinger	A., 168, 253	27, 69
" " " "	"	"	....	109.5	Weith and Landolt	B., 8, 720	
" " " "	"	"	263	110	Jacobsen	B., 14, 2347	42, 185
" " " "	"	"	....	110	Ador and Rilliet	B., 12, 2300	
" " " "	"	"	....	a. 100	....	....	v., 862
" " " "	" =1.4	"	....	173-176	Gerichten	B., 9, 258	30, 78
" " " "	"	"	....	175-175.5	Kekulé	B. S., 2, 46	v., 862
" " " "	"	"	....	175	Bechler	J. p. [2], 8, 167	27, 472
" " " "	"	"	....	175-176	Kekulé & Fleischer	B., 6, 1087	27, 65
" " " "	"	"	....	175-176	Merz	Z. C. [2], 4, 33	vi., 1100
" " " "	"	"	....	176	Fittig	....	"
" " " "	"	"	....	176	Wurtz	C. R., 68, 1298	"
" " " "	"	"	....	176	Landolph	B., 5, 267	25, 473 ; vii., 1175
" " " "	"	"	....	176	Tilden	....	33, 251
" " " "	"	"	....	176	Kekule	B., 6, 437	26, 889
" " " "	"	"	....	176	Jannasch & Hübner	Z. C. [2], 7, 706	vii., 1208
" " " "	"	"	....	176	Böttinger & Ramsay	A., 168, 253	27, 69
" " " "	"	"	....	176	Nietzski	A. P. [3], iv., 317	27, 892
" " " "	"	"	....	176	Brylants	J. Ph. [4], 26, 393	34, 158
" " " "	"	"	....	176-177	Beckett and Wright	....	29, 5
" " " "	"	"	....	=178-179 c.	"	"	"
" " " "	"	"	....	177	Fittica	A., 172, 303	26, 60
" " " "	"	"	?	?	"
" " " "	"	$C_8H_8O_2$	....	177	Hempel	A., 180, 71	29, 921
" " " "	"	"	....	177	Merz and Weith	B., 10, 746	32, 602
" " " "	"	"	....	177	Weith	B., 6, 421	
" " " "	"	"	....	177	Gerichten	B., 10, 1251	34, 49, 787
" " " "	"	"	....	177-178	Ador and Crafft	B., 10, 2176	34, 405
" " " "	"	"	....	178	Homeyer	A. P. [3], v., 293	29, 244
" " " "	"	"	274-275	180	Fischli	B., 12, 615	36, 638
Methoxybenzaldehyde	$C_6H_4OMeCOH=1.2$	"	230-233 u. c.	Liquid	Japp & Streatfield	....	41, 153
" " " "	"	"	238	Liquid	Perkin	A., 145, 302	20, 419 ; vi., 1008

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methoxybenzaldehyde	$C_6H_4.OMe.CO=1.2$	$C_8H_8O_2$	....	35	Voswinkel	B., 15, 2024	44, 190
"	" $=1.3$	"	230	Liquid	Tiemann & Ludwig	B., 15, 2048	44, 189
"	" $=1.4$	"	247-248 (733.5)	....	Rossel	A., 151, 25	vi., 174
"	" "	"	248	....	Tiemann & Herzfeld	B., 10, 63	32, 893
"	" "	"	250 u. c.	....	Bücking	B., 9, 528	
"	" "	"	253-255	Liquid	Cahours	A. C. [3], 14, 484 ; 23, 354	i., 307
Hydroxytoluic aldehyde	$Me.OH.CO=?$	"	206-208	Liquid	Barbier	B. S. [2], 33, 52	38, 468
"	" $=1.2.3$	"	208-209	17	Tiemann & Schotten	B., 11, 772	
"	" $=1.3.4$	"	222-223	54	" "	B., 11, 773	34, 876
"	" $=1.4.5$	"	217-218	56	" "	"	"
"	" $=1.3.6$	"	....	110	" "	"	"
"	" $=1.2.5$	"	....	115	" "	B., 11, 772	"
" .....	" $=?$	"	....	120	Barbier	B. S. [2], 33, 52	38, 468
Xyloquinone (phlorone)	$C_6H_2.Me_2.O_2=?$	"	....	60-62	Roumier & Bouillon	C. R., 55, 214	iv., 496 ; vi., 928
"	" $=1.4.2.5$	"	....	a. 100	Von Rad	A., 151, 158	vi., 928
" .....	" "	"	....	123.5	Carstanjen	J. p. [2], 23, 421	42, 612
" .....	" "	"	....	125	Roumier & Bouillon	C. R. [55], 214	iv., 496
"	" "	"	sb. 125	125	Nietzki	B., 13, 472 ; A., 215, 168	38, 553 ; 44, 467
? acid	$C_8H_{10}O_2(?)$	"	....	176	Salkowski	B., 8, 1462	29, 599
Phenoxyacetic acid	$CH_2(OPh).COOH$	$C_8H_8O_3$	285 p. d.	96	Fritzsche	J. p. [2], 20, 267	38, 319
Phenylglycollic acid	$CHPh(OH).COOH$	"	....	Liquid	Plöschl	B., 14, 1316	42, 515
" (man- delic)	"	"	....	115	Müller	A. P. [3], 2, 385, 389	26, 1038
" "	"	"	....	115-118	Breur and Zincké	B., 13, 635	38, 645
" "	"	"	....	117-118	Claisen	B., 10, 847	
" "	"	"	....	118	Wallach	A., 193, 38	
" "	"	"	....	118	Lewkowitsch	B., 16, 1565, 1568	44, 1124
Paramandelic acid ....	....	"	....	132.8	"	"	"
Methylic hydroxybenzoate	$C_6H_4.OH.COOMe=1.2$	"	217	....	Ramsay	....	39, 64
"	" "	"	218	....	Pettigrew	P. J. T. [3], 14, 167	46, 459
"	" "	"	222	Liquid	Cahours	A. C. [3], 10, 327	ii., 825 ; v., 161
" .....	" "	"	....	224 c.	....	A.	
"	" $=1.4$	"	283	17	Ladenburg & Fitz	A., 141, 250	vi., 898
Hydroxyphenylacetic acid	$C_6H_4.OH.(CH_2.CO=1.2$	"	....	137	Baeyer and Fritsch	B., 17, 973	46, 1021
" .....	" "	"	....	144.5	Will and Lauben- heimer	A., 199, 158	38, 266
"	" $=1.4$	"	....	148	Salkowski	B., 12, 650, 1438	36, 659 ; 38, 252
" .....	" "	"	....	148	Baumann	B., 13, 281	38, 649
Hydroxymethyl benzoic acid	$C_6H_4.CH_2OH.CO=1.2$	"	....	118	Hessert	B., 10, 1446	34, 66
"	" $=1.4$	"	....	176+	Dittmar and Kekulé	Z. C. [2], 7, 56	24, 376
Methoxybenzoic acid	$C_6H_4.OMe.CO=1.3$	"	....	95	Körner	A., 142, 352 ; B.A.B. [2], 24, 155	vi., 890
" .....	" "	"	....	106-107	Oppenheim & Pfaff	B., 8, 887	28, 1262
"	" $=1.2$	"	....	98.5	Græbe	A., 136, 137	vi., 1005
"	" "	"	223	....	Kopp	A., 92, 315	
" (anistic)	" $=1.4$	"	....	173-174	Græbe	A., 139, 147	
"	" "	"	275-280	....	Richter	Tabellen	
" .....	" "	"	....	175	Laurent	A., 108, 240 ; R. S., 106 and 362	i., 300
" .....	" "	"	....	175	Ladenburg	A., 141, 241	vi., 172
" .....	" "	"	....	175	Körner & Corbetta	B., 7, 1736	28, 458
" .....	" "	"	....	175	Landolph	C. R., 81, 97	29, 246
" .....	" "	"	....	175	"	B., 13, 146	38, 385
" .....	" "	"	....	176	Spica	G. I., 8, 406	36, 632
" .....	" "	"	....	184.2 c.	Oppenheim & Pfaff	B., 8, 891	28, 1263

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tetrahydrophthalicanhydride	$\begin{array}{c} \text{CH}_2\text{CH}_2\text{C}-\text{CO} \\ | \quad \quad \quad \diagup \\ \text{CH}_2\text{CH}_2\text{C}-\text{CO} \end{array} \text{O}$	$\text{C}_8\text{H}_8\text{O}_3$	....	68	Baeyer	B., 3, 61; A., 166, 346	vii., 1149
Methoxyhydroxybenz aldehyde	$\text{COH.OH.OMe}=1.2.3$	"	264-268	Liquid	Tiemann & Koppe	B., 14, 2021	42, 55
"	" =1.2.5	"	247-248	4	Tiemann & Müller	B., 14, 1910	42, 52
"	" =1.2.4	"	....	62-63	Tiemann & Parrisius	B., 13, 2368	40, 271
" (vanillin)	" =1.4.5	"	....	76	Gobley	J. P. [3], 34, 401	v., 994
"	"	"	....	80	Beckett & Wright	....	29, 289
"	"	"	....	79; 81	Scheibler	B., 13, 339	38, 467
"	"	"	280 p. d.	80-81	Carles	B. S. [2], 17, 12	vii., 1201; 25, 708
"	"	"	....	81	Tiemann & Haarmann	B., 8, 1119	29, 113
"	"	"	....	80-81 u. c.	" "	B., 7, 614	27, 895
"	"	"	....	81	Jannasch & Rump	B., 11, 1635	36, 245
"	"	"	....	82	Stokkebye	J. [1864], 612	v., 994
"	"	"	....	80	Lippmann	B., 13, 663	
"	"	"	285	....	Tiemann & Koppe	B., 14, 2024	
" (isovanillin)	" =1.3.4	"	....	116-117	Wegscheidler	M. C., 3, 792	44, 191
"	" =1.4.6	"	....	153	Tiemann & Parrisius	B., 13, 2367	40, 271
Hydroxytoluic acid	$\text{Me.COOH.OH}=1.76$	"	....	114	Engelhardt and Latschinoff	....	vi., 508; vii., 394, 934
"	" = ?	"	....	115-120	Ihle	J. p. [2], 14, 442	31, 708
"	" =1.3.4	"	....	148	"	J. p. [2], 14, 454	"
"	"	"	....	148	Vogt	B. 2, 284; Z. C. [2], 5, 577	vi., 508
"	"	"	....	147-150	Engelhardt and Latschinoff	Z. C. [1869], 622	vi., 508; vii., 394
"	"	"	....	149	Jacobsen	B., 11, 377	34, 582
"	"	"	....	151	"	A., 195, 283	36, 531
"	"	"	....	150-151	"	B., 14, 2356	
"	"	"	....	151	Tiemann & Schotten	B. 11, 778; 12, 1340	34, 877
"	"	"	....	151	Schall	B. 12, 821	36, 794
"	"	"	....	153	Kolbe & Lautemann	A., 115, 203	ii., 106; vi., 508; vii., 394
"	" =1.5.6	"	....	156-160	Jacobsen	B., 11, 902	
"	"	"	....	159-160	Ihle	J. p. [2], 14, 456	31, 708
"	"	"	....	159-160	Tiemann & Schotten	B., 11, 767; 12, 1341	34, 876
"	"	"	....	163-164	Jacobsen	B., 14, 2354	
"	"	"	....	163-164	Kekulé	B., 7, 1006	28, 64; vii., 934
"	"	"	....	164	Schall	B., 12, 818	36, 794
"	"	"	....	169-170 u. c.	Iles and Remsen	B., 11, 462	34, 505
"	"	"	....	168-173	Engelhardt and Latschinoff	Z. C. [1869], 623	vi., 508; vii., 394
"	" =1.2.3	"	....	168	Jacobsen	B., 16, 1963	44, 1124
"	" =1.2.4	"	....	172	"	B., 17, 163	46, 745
"	"	"	....	172	"	B., 14, 41	40, 599
"	" =1.3.6	"	....	172-173	Schall	B., 12, 819	36, 794
"	"	"	....	171=173 c.	Jacobsen	B., 11, 898	
"	"	"	....	174	"	B., 14, 2351	
"	"	"	....	172-173	Tiemann & Schotten	B., 11, 777; 12, 1340	34, 877
"	"	"	....	170.5-171.5 u. c.; 174-175 c.	Iles and Remsen	B., 11, 891, 1327	36, 52
"	"	"	....	174 c.	Remsen & Kuhara	A. C. J., 3, 424	42, 607
"	"	"	....	174.5	Mahon	A. C. J., 4, 186	42, 1205
"	" + $\frac{1}{2}\text{H}_2\text{O}$	"	....	148.5-149.5 c.	Remsen & Kuhara	A. C. J., 3, 424	42, 607
"	"	"	....	146.5-147 u. c.	Iles and Remsen	B., 11, 892	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hydroxytoluic acid + $\frac{1}{2}\text{H}_2\text{O}$	$\text{MeCOOH.OH}=1.3.6$	$\text{C}_8\text{H}_8\text{O}_3$	....	120	Mahon	A. C. J., 4, 186	42, 1205
" "	" =1.4.5	"	....	173	Ihle	J. p. [2], 14, 461	31, 708
" " ....	" "	"	....	173	Tiemann & Schotten	B., 11, 777; 12, 1341	34, 877
" " ....	" "	"	....	173	Ciamician	W. A., 81, 346	40, 247
" " ....	" "	"	....	174	Biedermann and Pike	B., 6, 324	vii., 394; 26, 904
" " ....	" "	"	....	174	Jacobsen	B., 11, 381	34, 583
" " ....	" "	"	....	174=177 c.	"	B., 11, 570	"
" " ....	" "	"	....	176=177 c.	Oppenheim & Pfaff	B., 8, 889	
" (see B., 11, 705)	" "	"	....	183-184	Fittica	B., 7, 928	27, 1167
" "	" =1.2.5	"	....	177-178	Schall	B., 12, 820	36, 794
" " ....	" "	"	....	177-178	Tiemann & Schotten	B., 11, 778; 12, 1340	34, 877
" " ....	" "	"	....	179	Jacobsen	B., 17, 62	46, 745
" " ....	" "	"	....	179	"	B., 14, 40	40, 599
" " ....	" = (?)	"	....	180	Oglialoro	G. I., 8, 440	36, 729
" "	" =1.2.6	"	....	183	Jacobsen	B., 16, 1962	44, 1124
" "	" =1.4.6	"	....	198	"	B., 11, 381	34, 583
" " ....	" "	"	....	202-203	Flesch	B., 6, 481	26, 1030
" " ....	" "	"	....	202-204	Gerichten & Rössler	B., 11, 706	34, 672
" " ....	" "	"	....	203-204 u.c.; 206-207 c.	" "	B., 11, 1587	36, 323
" " ....	" "	"	....	205 u. c.	Remsen and Hall	A. C. J., 2, 50; B., 12, 1433	42, 186
" "	" =1.3.5	"	....	208	Jacobsen	B., 14, 2358	42, 193
Ethylene pyrogallate	$\text{C}_6\text{H}_3.\text{OH}:\text{O}_2:\text{C}_2\text{H}_4$	"	267	Liquid	Magatti	B., 12, 1860	38, 250
Piperonyl alcohol	$\text{HO.CH}_2.\text{C}_6\text{H}_3.\text{O.CH}_2.\text{O}$	"	....	51	Fittig and Remsen	A., 159, 138	vi., 949; 24, 936
Dihydroxyacetophenone	$\text{CH}_3.\text{CO}.\text{C}_6\text{H}_3(\text{OH})_2=1.1.3$	"	303-305	142	Nencki and Sieber	J. p. [2], 23, 147	40, 591
" "	" =1.1.4	"	....	202	" "	J. p. [2], 23, 537	40, 812
Orcylaldehyde	$\text{C}_6\text{H}_2\text{Me}(\text{OH})_2.\text{COH}=?$	"	....	177-178	Tiemann and Helkenberg	B., 12, 1001	36, 720
Hydroxyisoxylenequinone	$\text{C}_6\text{HMe}_2(\text{OH})_2:\text{O}_2=1.3.1.5.?$	"	....	103	Fittig and Liebermann	A., 180, 27	29, 919
Fusion of Sinalbin with KHO	....	"	....	136	Will	Z. C. [2], 7, 89	24, 408; vii., 832
Acid from teucrin	$(\text{C}_8\text{H}_8\text{O}_2)?$	"	....	180	Oglialoro	G. I., 13, 498; B., 12, 296	46, 332
?	....	"	....	109-110	....	M. C., 3, 356	
Dehydracetic acid	$\text{CH}_2\text{Ac.C}:\text{CH}.$ $\text{C}(\text{OH}):\text{C.COOH}$	$\text{C}_8\text{H}_8\text{O}_4$	269	108.5	Oppenheim and Precht	B., 9, 324, 1101	30, 70
" " ....	....	"	269.5	108.6-109	Geuther	J. [1865], 303	vi., 543
Terebilic acid....	$\text{CMe}_2\text{C}(\text{COOH}):\text{CH}$ $\text{O}-\text{CO}$	"	....	169	Roser	B., 15, 293	42, 717
Hydrophthalic acid	$\text{C}_6\text{H}_6(\text{COOH})_2=1.2$	"	....	a. 200	....	A., 142, 334	
Hydroxymandelic acid	$[\text{CH}(\text{OH}).\text{COOH}].\text{OH}=1.2$	"	....	Liquid	Plöschl	B., 14, 1317	
" " ....	" = ?	"	....	162	....	Z. C. [1870], 85	
" " ....	" = ?	"	....	167-168	....	Z. P. C., 6, 192	
Methylic dihydroxybenzoate (protocatechuate)	$\text{COOMe}(\text{OH})_2=1.3.4$	"	....	134.5	Meyer	B., 11, 129	34, 501
Methoxyhydroxybenzoic acid	$\text{COOH.OH.OMe}=?$	"	....	99	Græbe	A., 136, 124	v., 186
" "	" =1.2.5	"	....	142	Tiemann and Müller	B., 14, 1997	42, 53
" " ....	" "	"	....	141	Körner and Betoni	B., 14, 848	
" "	" =1.2.4	"	....	151.5	" "	B., 14, 847	
" " ....	" "	"	....	154	Tiemann and Parisius	B., 13, 2377	
" (vanillic)	" =1.4.5	"	....	207	Matsmoto	B., 11, 124	34, 500
" " ....	" "	"	....	211-212 u. c.	Tiemann	B., 8, 512	28, 1199
" " ....	" "	"	....	211-212 u. c.	Tiemann & Reimer	B., 8, 516	29, 303
" (isovanillic)	" =1.3.4	"	....	236-238	Wegscheider	M. C., 3, 348	42, 1207

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methoxyhydroxybenzoic acid (isovanillic)	COOH.OH.OMe=1.3.4	C ₈ H ₈ O ₄	....	a. 245	Matthiessen and Forster	....	16, 342
" "	" "	"	....	249 c.	Beckett and Wright	....	29, 300, 305
" "	" "	"	....	249-250 c.	" "	....	29, 296
" "	" "	"	....	250-251 c.	" "	....	29, 304
" "	" "	"	....	251 c.	" "	....	29, 296, 302
" "	" "	"	....	250	Matsmato	B., 11, 125	34, 500
" "	" "	"	....	250	Tiemann and Will	B., 14, 964	
Hydroxymethylhydroxybenzoic acid	COOH.OH.CH ₂ OH=1.2.3	"	....	142	Reimer	B., 11, 792 ; 12, 1341	34, 881
" "	" =1.2.5	"	d. 160	crystalline	"	B., 11, 791 ; 12, 1341	"
" "	" =1.4.5	"	....	n. f. 270	"	B., 11, 792 ; 12, 1340	"
Dihydroxy-alphatoluic acid	(CH ₃ .COOH).(OH) ₂ =1.3.4	"	....	127	Tiemann and Nagai	B., 10, 207	32, 340
Dihydroxytoluic acid	Me.CO.H.(OH) ₂= ?	"	....	151 p. d.	....	M. C., 1, 238	
" " (orsellinic)	" = ?	"	....	176 d.	....	A., 68, 61 ; 117, 311 ; 139, 35	
" " ....	" = ?	"	....	206-210 p. d.	....	M. C., 2, 458	
" "	" =1.2.(?) ₂	"	....	245	Jacobsen & Wierss	B., 16, 1956	44, 1121
Trihydroxyacetophenone	CH ₃ .CO.C ₆ H ₂ (OH) ₃	"	....	168	....	J. p. [2], 23, 151 538	
Oxyvanillic acid ....	....	"	....	169	Carles	B. S., 17, 13	25, 708; vii., 1201
Acid from hemipinic acid ....	....	"	....	a. 245	Matthiessen and Forster	P. T., 1863	iii., 142
Ethylc comenate	C ₅ H ₂ O ₂ (OH).(COOEt)	C ₈ H ₈ O ₆	....	126.5	Mennel	J. p., 26, 453	44, 656
" " ....	"	"	....	126.5	Reibstein	J. p. [2], 24, 277	42, 197
" " ....	"	"	....	135	How	A., 80, 65, 88 ; T. E., 22, 225	19, 177 ; i., 1106
Ethylcomenic acid	C ₅ H ₂ O ₂ (OEt)(COOH	"	....	239-240	Mennel	J. p., 26, 459	44, 656
Carbopyrotitartaric acid	COOH.CHAc.CH-C:CH ₂ CO-O	"	....	230	Harrow	....	33, 433
" " ....	" "	"	....	230-231	"	A., 201, 152	33, 432
Ethylc hydroxycomenate	C ₅ H ₂ O ₂ (OH) ₂ .COOEt	C ₈ H ₈ O ₆	....	204	Reibstein	J. p. [2], 24, 287	42, 197
Diacetyl racemic anhydride....	CO.(CHOAc) ₂ .CO.O	C ₈ H ₈ O ₇	....	122-123	Anschütz & Pictet	B., 13, 1178	38, 876
" " " ....	"	"	....	126	Perkin	As., 5, 289	20, 149
Diacetyldextrotartaric anhydride	"	"	....	125-129	Anschütz & Pictet	B., 13, 1178	38, 876
" " "	"	"	a. 250 d.	126-127	Perkin	As., 5, 289	20, 149 ; v., 689
" " " ....	"	"	....	135	....	J. [1861], 368	
Furfurobutylene	C ₄ H ₂ O.CH:CH.CH ₂ .CH ₃	C ₈ H ₁₀ O	153	Liquid	Baeyer and Tonnie	B., 10, 1365	32, 746
Ethoxybenzene (phenetol)	C ₆ H ₅ .OEt	"	172	....	Cahours	J., 2, 425	iv., 391
" " "	"	"	175	....	Baly	A., 70, 271	
Benzyl methyl oxide	C ₆ H ₅ .CH ₂ .OMe	"	167-168	....	....	A., 161, 334 ; A. C. [5], 10, 23	
Benzyl carbinol	C ₆ H ₅ .CH ₂ .CH ₂ .OH	"	212	Liquid	Radziszewsky	B., 9, 372, 461	30, 78
Phenyl methyl carbinol	C ₆ H ₅ .CH(OH).CH ₃	"	202-204	Liquid	"	B., 7, 141	27, 469
" " " (polymer ?)	"	"	202-203	Liquid	Emmerling & Engler	B., 6, 1006	27, 74
Phlorol	"	"	a. 200 p. d.	120	" "	B., 4, 147	24, 258
" " "	"	"	220	....	....	A., 102, 166	vii., 930
" " "	"	"	219-220	Liquid	Marasse	A., 152, 75	vi., 928
Ethylphenol	Et.OH = 1.2	"	220	Liquid	Ciamician	B., 12, 1661	38, 39
" " "	" "	"	210-212	Liquid	Oliveri	G. I., 13, 263	46, 174
" " "	" = ?	"	212	Liquid	Beilstein & Kuhlberg	Z. C. [2], 5, 461	vi., 916 ; vii., 930
" " "	" = ?	"	210-78 c.	l.-18	Suida and Plohn	W. A., 81, 245	40, 268
" " "	" = ?	"	220	....	Hentschel	J. p., 27, 498	44, 1107
" " " β-	" = ?	"	191-215	Liquid	Aner	B., 17, 669	46, 1002
" " " β-	" = ?	"	206-208	....	....	A., 156, 212 ; M. C., 1, 175	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethylphenol	Et.OH = 1.4	$C_8H_{10}O$	209-210; 211	47-48	Fittig and Kiesow	Z. C. [2], 5, 333; A., 156, 254	vi., 916
"	" "	"	214-215	46	Beilstein & Kuhlberg	Z. C. [2], 5, 461	vi., 916; vii., 930
Methylcresol	OMe.Me = 1.2	"	175	Liquid	Körner	Z. C. [2], 4, 327	vi., 507
"	" = 1.3	"	175-176	Liquid	Oppenheim & Pfaff	B., 8, 888	
"	" = 1.4	"	174	Liquid	Cannizzaro	G. I., 2, 65	vii., 79
"	" "	"	174	Liquid	Körner	B. S. [2], 10, 468; B. A. B. [2], 24, 154	vi., 172, 506
Phloretol ....	....	"	190-200	....	Hlasiwetz	A., 102, 166	iv., 493
" ....	....	"	a. 200	....	....	J., 10, 329	
Tolylcarbinol (xylyl alcohol)	Me.CH ₂ OH = 1.2	"	210	54	....	B. S., 27, 498	
" " "	" = 1.3	"	215 (740)	Liquid	Radziszewsky and Wispek	B., 15, 1747	42, 1283
" " "	" " (?)	"	abt. 220	1-18	....	Z. C. [1866], 489	v., 869
" " "	" = ?	"	217	....	Laubenheimer	A., 164, 289	26, 65; vii., 178
" " "	" = 1.4	"	217	58.5-59.5	Cannizzaro	A., 124, 255; C.R., 54, 1225	v., 869
Xylenol	Me.Me.OH = ?	"	214.2 c.	Liquid	Wroblewsky	Z. C. [2], 4, 232	vi., 1129
"	" = ?	"	212	Liquid	....	....	vii., 930
"	" = 1.3.4	"	211.5 (759.7)	Liquid	Wurtz	J. [1868], 459; A.C. [4], 25, 108	vi., 1129; 25, 482
"	" "	"	211.5 (766)	Liquid	Jacobsen	B., 11, 24	34, 411
"	" "	"	208-212	1-20	"	B., 11, 2053	
" ....	" "	"	....	1-20	Harmsen	B., 13, 1558	
"	" = 1.3.?	"	206.5-208.5	Liquid	Lako	A., 182, 30	30, 634
"	" "	"	215	Solid	....	....	vii., 930
"	" = 1.2.4 (?)	"	220	....	Tiemann & Mendelsohn	B., 10, 60	
"	" " (?)	"	219-220	....	....	A., 152, 57	
"	" = 1.2.4	"	223-225	61	Jacobsen	B., 10, 1015	32, 600
"	" "	"	225 (757)	61	"	B., 11, 28	34, 412
"	" "	"	222-225	61	"	B., 12, 437	36, 641
" ....	" "	"	....	62.5	"	B., 17, 159	46, 737
"	" = ?	"	213.5	75	Wurtz	J. [1868], 459; A. C. [4], 25, 108	vi., 1129; 25, 482
"	" = 1.5.6	"	216	73	Wroblewsky	Z. C. [2], 4, 232	vi., 1129
"	" "	"	211-212	74.5	Jacobsen	B., 11, 26	34, 412
"	" = 1.4.5	"	211.5 (762)	74.6	"	"	"
"	" "	"	210-211	74.5	"	B., 10, 1014	32, 600
"	" "	"	(?)	(?)	Oliveri	G. I. [1882], 161	42, 837
From oil of arnica ....	....	"	224-225	....	Sigel	A., 170, 345	27, 378
Phenylglycol (styrolene alcohol)	$C_6H_5.CH(OH).CH_2OH$	$C_8H_{10}O_2$	....	67-68	Wachendorff and Zincké	B., 10, 1005	32, 614
" " "	"	"	272-274 (755)	....	....	A., 216, 294	
" " "	polymer (?)	"	....	123-126	Breuer and Zincké	B., 11, 1399	34, 885
Dimethoxy benzene (veratrol)	$C_6H_4(OMe)_2=1.2$	"	210-220	Liquid	Kølle	B., 4, 634	24, 829; vii., 432
" " "	" "	"	210-215	....	"	A., 159, 244	
" " "	" "	"	205	Liquid	Tiemann & Koppe	B., 14, 2017	42, 54
" " "	" "	"	205-206	Liquid	Marasse	A., 152, 74	
" " "	" "	"	204-206	Liquid	Beckett & Wright	....	29, 284
" " "	" = ?	"	202-205	s. 15	Merck	A., 95, 200	v., 997
" " "	" = 1.3	"	210-212	Liquid	Conineck	B. S. [2], 34, 150	40, 269
" " "	" "	"	214	Liquid	Tiemann & Parrisius	B., 13, 2365	40, 270
" " "	" "	"	214-215	Liquid	Habermann	B., 10, 869	32, 475
" " "	" = 1.4	"	....	55-56	Hlasiwetz and Habermann	A., 177, 341	29, 80
Ethoxyhydroxy benzene	$C_6H_4.OEt.OH=1.4$	"	246-247	66	Hantzsch	J. p. [2], 22, 462	40, 166
" " "	" "	"	....	66-67	Wichelhaus	B., 12, 1502	
Methoxybenzalcohol	$C_6H_4.OMe.CH_2OH=1.2$	"	247.5 c. (765)	s. in CO ₂ & ether	Cannizzaro & Körner	G. I., 2, 65; B., 5, 436	vii., 79; 25, 1095

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Methoxybenzalcohol (anisic alcohol)	$C_6H_4.OMe.CH_2OH=1.4$	$C_8H_{10}O_2$	258·8 c. (760·3)	24-25	Cannizzaro & Körner	G. I., 2, 65; B., 5, 436	vii., 79; 25, 1095
" "	" "	"	248-250	23	Cannizzaro and Bertagnini	A., 98, 190	i., 303
Phthalyl alcohol	$C_6H_4(CH_2OH)_2=1.2$	"	....	56-62	Hessert	B., 12, 646	36, 634
" " (?)....	" "	"	....	62	Goldenberg	B., 7, 286	27, 694
" " ....	" "	"	....	64·5	Colson	C. R., 98, 1543	46, 1000
Terephthalic alcohol (tolylene glycol)	" =1.4	"	....	112-113	Grimaux	A. C. [4], 26, 331; C. R., 70, 1363	25, 816; vii., 1209
Homosalicylic alcohol	$OH.Me.CH_2OH=1.4.6$	"	....	105	Schotten	B., 11, 784	34, 877
Creosol	mixture (?)	"	203	....	Reichenbach	Sw. J., 66, 308	
"	" (?)	"	202-210	....	Gorup Besanez	J., 8, 653	
"	" (?)	"	195	....	Frisch	J., 20, 689	
"	$Me.OMe.OH=1.3.4$	"	214-216	....	Bötsch	M. C., 1, 616	42, 211
"	" "	"	219	....	Gratzel	A. P. [3], 20, 605	44, 393
"	" "	"	219-220	....	Hlasiwetz	A., 106, 354	ii., 105
"	" "	"	220-224	....	Tiemann & Koppe	B., 8, 1136; 10, 206; 14, 2024	42, 55
Methylorcinol	" =1.3.5	"	273	Liquid	Tiemann & Streng	B., 14, 2001	42, 52
Methyltoluquinol	" = ?	"	240-245	72	Nietzki	B., 11, 1279; A., 215, 166	34, 869
Xyloquinol (hydrophlorone)	$C_6H_2.Me_2(OH)_2$	"	....	212	Nietzki	A., 215, 169; B., 13, 472	44, 467; 38, 553
" "	"	"	....	208	Carstanjen	J. p. [2], 23, 429	42, 612
" "	"	"	....	125	Pfaff	B., 16, 1135	44, 918
" "	"	"	....	120	....	B. S., 28, 345	
Betaorcinol ....	" (?)	" (?)	....	n. f. 109	Stenhouse	P. M. [3], 33, 300	iv., 215
" ....	"	"	....	163	Stenhouse & Groves	A., 203, 287	37, 398
Terebentic acid ....	....	"	250 p. d.	90	Personne	A., 100, 253	v., 723
Caffeol....	....	"	195-197	....	Bernheimer	M. C., 1, 459	42, 232
Meconoisin ....	....	"	....	88	T. and H. Smith	P. J. T. [3], 8, 981	34, 801
? phenol	$C_8H_8O_2 (?)$	"	....	176	Salkowski	B., 8, 1462	29, 599
Xeronic anhydride	$CH_2.CMe.CO \begin{array}{c} \diagup O \\ \diagdown \end{array}$ $CH_2.CMe.CO \begin{array}{c} \diagup O \\ \diagdown \end{array}$	$C_8H_{10}O_3$	242 c.	1-18	Fittig	B., 9, 117; A., 187, 42	29, 898; 32, 736
Ethyl carbacetoacetate ....	....	"	290-295	Liquid	Duisberg	B., 15, 1387; A., 213, 179	42, 1193
Dimethylpyrogallol	$C_6H_3.OH.(OMe)_2$	"	253	51-52	Hofmann	B., 11, 334	34, 418
Ethylpyrogallol	$C_6H_3(OH)_2.OEt$	"	....	95	Benedikt	B., 9, 125	29, 916
" ....	"	"	....	95	Hofmann	B., 11, 799	34, 870
Vanillyl alcohol	$C_5H_3.OH.OMe.CH_2OH$	"	....	103-105	Tiemann	B., 8, 1126; 9, 415	
Trihydroxyisoxylene....	$Me_2(OH)_3=1.3.4.1.?$	"	....	121-122	Fittig & Liepermann	A., 180, 37	29, 920
" (xH ₂ O)	" "	"	....	88-89	" "	" "	"
Diallylic oxalate	$(COOC_3H_5)_2$	$C_8H_{10}O_4$	206-207	....	Hofmann & Cahours	J., 9, 585; A., 102, 288, 294	iv., 268
Tetrahydrophthalic acid	$CH_2.(CH_2)_3.C(COOH):C$ (COOH)	"	....	96	Baeyer	B., 4, 273	24, 373
" "	" "	"	....	96-100	"	A., 166, 346	vii., 1149
" "	" "	"	....	95	"	B., 3, 62	
Dimethoxydihydroxy benzene	$C_6H_2.(OMe)_2.(OH)_2$	"	....	160	Hofmann	B., 8, 67; 11, 332	34, 417
Ketolactonic acid	$CMe.O.CO$ \parallel $C(COOH).CHEt$	"	....	181	Young	A., 216, 45	43, 175, 179
Bergenitol	$C_8H_5(OH)_5$	$C_8H_{10}O_5$	....	130	Morelli	C. R., 93, 646	42, 159
Glyceric acid....	$C_7H_5O_4.COOH$	$C_8H_{10}O_6$	245-247	83	Böttinger	A., 196, 96	36, 524
From glyceric acid	$C_8H_5O_4.2H_2O$	"	....	83	"	B., 10, 266	32, 443
Diformyl isomannide	$[(CHO).CH_2.CH.CH.O]_2$	"	....	115	Fauconnier	B. S., 41, 18	46, 1111
? acid ....	....	"	....	139	....	A., 211, 325	
Allylethenyltricarboxylic acid	$(COOH)_2.CH.CH_2(C_3H_5).$ COOH or $COOH.C(C_3H_5).CH_2.COOH$	"	151 d.	Hjelt	B., 16, 333	44, 656

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Dicarbocaprolactonic acid	$C_8H_8O_6$ 	$C_8H_{10}O_6$	152-153	Hjelt	B., 16, 1258	44, 970
Erythrol tetraformate	$C_4H_6(O.CHO)_4$	$C_8H_{10}O_8$	150	Henninger	C. R., 98, 149	46, 897
Umbellol ....	....	$C_8H_{12}O$	215-216	Liquid	Stillman	B., 13, 629	38, 670
Camphrene ....	....	"	a. 240	....	Chautard	J., 10, 483	
Ketone from collidine ....	....	"	208-209	Liquid	Hantzsch	A., 215, 50	44, 84
Ethyl sorbate	$C_8H_7.COOEt$	$C_8H_{12}O_2$	195.5	....	....	A., 110, 137	
Diallylacetic acid	$(CH_2:CH.CH_2)_2.CH.COOH$	"	219-220	....	Conrad and Bischoff	B., 13, 598	38, 628
" "	" "	"	221-222	Liquid	Wolff	B., 10, 1957; A., 201, 45	34, 293
" "	" "	"	224-226	Liquid	Reboul	C. R., 84, 1233	32, 594
Suberen carboxylic acid	$C_7H_{11}.COOH$	"	....	53-54	Dale & Schorlemmer	A., 211, 119	39, 541
Dipyrrotartracetone ....	....	"	230	Liquid	Bourgoin	C. R., 86, 674	34, 488
Lactone from bromdipropyl-acetolactone	....	"	235-240	....	Hjelt	B., 15, 627; A., 216, 75	42, 946
Ethyl ethylideneacetate	$CH_3.CH:CAc.COOEt$	$C_8H_{12}O_3$	210-212	....	Claisen	B., 14, 346	40, 405
" "	" "	"	210	Liquid	Claisen & Matthews	A., 218, 170	46, 443
Ethyl acetyltrimethylene carboxylate	$CH_2.CH_2.CAc.COOEt$	"	193-195	Liquid	Perkin	B., 16, 2136	46, 64
Diallyl oxalic acid	$(CH_2:CH.CH_2)_2.C(OH).COOH$	"	....	48.5	Saytzeff	A., 185, 183; B. S., 27, 446	32, 883; 32, 739
Aldol diacetate	$CH_3.CHOAc.CH_2.COAc$ (I)	$C_8H_{12}O_4$	150-160 (20)	Liquid	Wurtz	C. R., 74, 1361; J. [1872], 450	25, 809; vii., 39
Butinglycol diacetate	$C_4H_6(OAc)_2$	"	202-203	....	Henninger	B., 5, 1059	
Dimethyl tetrylendicarboxylate	$C_4H_6(COOMe)_2$	"	220	....	....	A., 208, 338; J. R., 2, 449	
Ethyl pyrocinchonate	$C_8H_7O_2.COOEt$	"	235-240	....	Roser	B., 15, 1319	
Diethyl maleate	$C_2H_2.(COOEt)_2$	"	abt. 210	....	Tanatar	B., 12, 1563	38, 35
" "	"	"	225 c.	....	Anschütz	B., 12, 2283	
" fumarate	$COOEt.CH:CH.COOEt$	"	213-220	....	Purdie	....	39, 346
" "	"	"	214-216 u. c.	....	"	....	"
" "	"	"	218 c.	....	Anschütz	B., 12, 2282	"
" "	"	"	218	....	"	B., 14, 2790	42, 831
" "	"	"	218 (745.7)	....	Laubenheimer	A., 164, 299	26, 56
" "	"	"	218.5	....	Anschütz	B., 11, 1644	38, 223
" "	"	"	220-225	....	Claus	B., 15, 1848	
" "	"	"	225	....	Henry	A., 156, 178	
" "	"	"	225	....	Hagen	A., 164, 294	26, 56
Acetated crotonaldehyde	$C_4H_6O + Ac_2O$	"	205-210	....	....	J. R., 11, 79	
Suberconic acid ....	....	"	....	165-170	Gantter and Hell	B., 15, 149; A., 211, 120	
Hexahydrophthalic acid	$C_6H_{10}(COOH)_2=1.2$	"	....	203-205	Baeyer	B., 4, 273; A., 166, 350	24, 373; vii., 1149
" " ....	" "	"	....	207	Mizerski	B., 4, 558	" "
Terpenylic acid + H_2O	$C_6H_6(OH)_2.Me.COOH$	"	....	89	Amthor	A. P. [3], 18, 356	42, 44
" " ....	"	"	....	90	Fittig and Krafft	A., 208, 71	42, 42
" " ....	"	"	....	90	Hempel	B., 8, 357	28, 762
" " ....	"	"	....	90	"	A., 180, 79	29, 921
From hydrosuberancarboxylic acid	$C_8H_{14}O_4(?)$	"	....	100	Dale & Schorlemmer	....	39, 542
Acetyl isomannide	$O.CH.CH.CH_2.OAc$ $O.CH.CH.CH_2.OH$	$C_8H_{12}O_5$	185-187 (25)	Liquid	Fauconnier	B. S., 41, 18	46, 1111
From rottlera tinctoria ....	....	"	....	191	Leube	J. [1860], 563	v., 118
Propylethyltricarboxylic acid	$CPr^a(COOH)_2.CH_2.COOH$	$C_8H_{12}O_6$	....	148	Waltz	B., 15, 608; A., 214, 59	42, 948; 44, 46
Iso-propylethyltricarboxylic acid	$CHPr^b(COOH).CH(COOH)_2$	"	....	160	Roser	A., 220, 271	46, 423
Tartrophthalic acid ....	....	"	....	178-180 d.	....	A., 166, 355	
Ethyltriacetate	$C_2H_3(OAc)_3$	"	a. 250	....	....	A., 100, 115	
Diethyl trioxymaleate	$COOEt.C(OH)_2.CO.COOEt$	$C_8H_{12}O_7$	....	Liquid	Tanatar	B., 13, 1386	38, 875

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diallylcarbinol methyl oxide	$(\text{CH}_2:\text{CH}.\text{CH}_2)_2\text{CHOMe}$	$\text{C}_8\text{H}_{14}\text{O}$	135	....	Rjabinin	J. p. [2], 23, 269	40, 404
" " "	"	"	135-136 (763.3 r.)	Liquid	"	B., 12, 2374; J. R., 11, 395	38, 372
Isoamyl propargyl oxide	$\text{C}_6\text{H}_{11}.\text{O}.\text{CH}_2.\text{C}:\text{CH}$	"	140-145	Liquid	Henry	B., 5, 274, 455, 569	vii., 1008; 25, 687
Diallyl methyl carbinol	$(\text{CH}_2:\text{CH}.\text{CH}_2)_2\text{MeC.OH}$	"	157	....	Sorokin & Saytzeff	B., 9, 34	29, 695
" " "	"	"	158.4 c.	....	Sorokin	A., 185, 169	32, 299
From methylethyl ketone	....	"	163-165	Liquid	Schramm	B., 16, 1581	44, 1079
Bye-product from preparation of ketones	....	"	167-168	Liquid	Pawlow	B., 9, 1312; B. S., [2], 27, 27, 263; A., 187, 104	31, 58; 32, 311; 32, 733
Aldehyde from isobutaldehyde	....	"	149-151	....	Fossek	M. C., 2, 618; M. C., 3, 622	42, 161; 43, 94
" " "	....	"	230-231 (771.6)	Liquid	Öconomides	B. S. [2], 36, 209	42, 32
Hexylene acetate	$\text{C}_6\text{H}_{11}.\text{OAc}$	$\text{C}_8\text{H}_{14}\text{O}_2$	145	....	Destrem	B., 16, 229	
Allyldimethylcarbinol acetate	$(\text{CH}_2:\text{CH}.\text{CH}_2)_2\text{Me}_2.\text{C.OAc}$	"	136	....	M. and A. Saytzeff	B., 9, 33	29, 695
" " "	"	"	137.5 c.	....	" "	A., 185, 155	32, 298
Methylcrotylcarbinol acetate	$\text{CH}_3.\text{CHO}.\text{Ac}.\text{CH}_2.\text{CH}:\text{CH}_2$	"	147-149	....	Crow	A., 201, 44	33, 54
" " "	....	"	157-158	....	....	J. R. [1881], 353	
Diallylic acetate	$\text{C}_6\text{H}_{11}.\text{OAc}$	"	150-160	Liquid	Wurtz	A. C. [4], 3, 129	vi., 93
" " "	"	"	155-165	....	Tollens	Z. C. [2], 7, 249	25, 998
Allylic iso-valerate	$\text{CHMe}_2.\text{CH}_2.\text{COO}.\text{C}_3\text{H}_5$	"	162	....	Hofmann & Cahours	J., 9, 586; A., 102, 296	
Ethyl ethylcrotonate	$\text{C}_2\text{H}_4:\text{CEt}.\text{COOEt}$	"	165	Liquid	Frankland & Duppa	A., 136, 3	18, 133; vi., 601
" hydrosorbate	$\text{EtCH}(\text{COOEt}).\text{CH}:\text{CH}_2$	"	166-167	Liquid	Fittig & Barringer	A., 161, 312; Z. C. [1870], 425	25, 487; vii., 1092
α -ethyl- β -methylvalerolactone	$\text{CHEt}(\text{CHMe})_2.\text{CO.O}$	"	226-227	....	Young	A., 216, 43	43, 179
γ -diethylbutyrolactone	....	"	228-233	....	Emmert & Friedrich	B., 15, 1852	44, 39
Dibutyl	$(\text{C}_4\text{H}_7\text{O})_2$	"	245-260	Liquid	Freund	A., 118, 37	vi., 380
Hydrosuberancarboxylic acid	$\text{C}_7\text{H}_{13}.\text{COOH}$	"	....	Liquid	Dale & Schorlemmer	A., 211, 119	39, 541
" ?	$[\text{Me}(\text{C}_2\text{H}_5\text{O})\text{CH}]_2.\text{O}$	$\text{C}_8\text{H}_{14}\text{O}_3$	80-84	....	Jacobsen	B., 4, 216	24, 513
Butyric anhydride	$(\text{CH}_3.\text{CH}_2.\text{CH}_2.\text{CO})_2\text{O}$	"	191-193	....	Linnemann	A., 161, 179	25, 395
" " "	"	"	190	Liquid	Gerhardt	A., 68, 127; J., 5, 452	i., 695
" " "	"	"	190	....	....	A., 87, 155	vi., 378
" " "	"	"	190	....	Markownikoff	Z. C. [2], 4, 621	vi., 381
Isobutyric	$(\text{CHMe}_2.\text{CO})_2\text{O}$	"	180.5	....	....	Z. C. [2], 5, 501	vi., 378
" " "	"	"	180-181	....	Markownikoff	Z. C. [2], 4, 621	vi., 381
Ethyl dimethylacetoacetate	$\text{CMe}_2.\text{Ac}.\text{COOEt}$	"	184	....	Frankland & Duppa	J., 18, 309	vi., 591
" ethylacetoacetate	$\text{CHEtAc}.\text{COOEt}$	"	192-196	....	Saur	A., 188, 257	34, 27
" " "	"	"	190-196	....	Conrad & Limpach	A., 192, 153	34, 781
" " "	"	"	193-195	....	Wislicenus	B., 7, 685	27, 884
" " "	"	"	190-200	....	Geuther	J. Z., 6, 560, 575	vii., 488
" " "	"	"	195-196 c.	....	Frankland & Duppa	A., 138, 214; P. T., 1866	vi., 16
" " "	"	"	198	....	Geuther	A. P. [2], 116, 97	"
Isobutylic acetoacetate	$\text{CH}_2.\text{Ac}.\text{COO}.\text{CH}_2.\text{CHMe}_2$	"	abt. 203; 202-206	Liquid	Emmerling and Oppenheim	B., 9, 1097	30, 505
Ethyl α -methyl β -acetopropionate	$\text{CH}_2.\text{Ac}.\text{CHMe}.\text{COOEt}$	"	206-208	Liquid	Bischoff	A., 206, 323	40, 412
Ethyl β -acetobutyrate	$\text{CH}_3.\text{CH}.\text{Ac}.\text{CH}_2.\text{COOEt}$	"	204-206	....	"	A., 206, 334	40, 413
Propyl β -acetopropionate	$\text{CH}_2.\text{Ac}.\text{CH}_2.\text{COOPr}^a$	"	215-216 u. c.	....	Grote, Kehrler, and Tollens	A., 206, 222	40, 410
Ethyl propionylpropionate	$\text{CH}_3.\text{CH}_2.\text{CO}(\text{CH}_2)_2.\text{COOEt}$	"	199	....	Hellon and Oppenheim	B., 10, 700	
Suberic aldehyde	....	"	202 p. d.	Liquid	Schröder	A., 143, 34; J. [1866], 327	vi., 1040
Suberyl glycollic acid	$\text{C}_7\text{H}_{12}.\text{OH}.\text{COOH}$	"	....	79-80	Dale & Schorlemmer	A., 211, 118	39, 541

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dialdane	$(\text{CH}_3.\text{CH}(\text{OH}).\text{CH}_2.\text{CH}:\text{CH}.\text{CH}(\text{OH}).\text{CH}_2.\text{CHO})$	$\text{C}_8\text{H}_{14}\text{O}_3$	137 (20)	139	Wurtz	B. S. [2], 24, 100	30, 65
"	"	"	"	139-140	"	C. R., 83, 1259	31, 588
Aldol anhydride	$(\text{CHO}.\text{CH}_2.\text{CHMe})_2\text{O}$	"	137 (20)	155	"	C. R., 74, 1361	vii., 39; 25, 809
Ethyl mannitol anhydride	$\text{C}_6\text{H}_9\text{EtO}_4$	$\text{C}_8\text{H}_{14}\text{O}_4$	165 (17)	Liquid	Fauconnier	C. R., 95, 991; B., 15, 3086	44, 306
Ethylene dipropionate	$(\text{C}_3\text{H}_5\text{O})\text{O}.\text{CH}_2.\text{CH}_2.\text{O}(\text{C}_3\text{H}_5\text{O})$	"	210.5-212 c.	....	Perkin	....	45, 505
Butylene diacetate	$\text{C}_4\text{H}_8(\text{OAc})_2$	"	abt. 200	Liquid	Wurtz	J., 12, 499	v., 739
Ethlene acetobutyrate ....	....	"	208-215	....	Simpson	A., 113, 117; J., 12, 488	
Ethylic acetoxybutyrate ....	....	"	198	....	....	A., 142, 373	
" isobutyryl glycollate	$(\text{CHMe}_2.\text{CH}_2)\text{O}.\text{CH}_2.\text{COOEt}$	"	197-198	Liquid	Senff	A., 208, 271	40, 1127
" butyryl glycollate	$(\text{CH}_3.\text{CH}_2.\text{CH}_2.\text{CH}_2)\text{O}.\text{CH}_2.\text{COOEt}$	"	205-207	....	"	A., 142, 372; 208, 271	
Dipropyl oxalate	$\text{COOPr}^a.\text{COOPr}^a$	"	209-211	....	Cahours	C. R., 77, 745; B. S., 21, 77; B., 9, 1610	27, 38
Diethylic succinate	$\text{COOEt}.\text{CH}_2.\text{CH}_2.\text{COOEt}$	"	214	....	D'Arcet	A. C. [2], 58, 291	v., 463
" "	"	"	215.4	....	Weger	A., 221, 61	46, 11
" "	"	"	216.5 c.	....	Perkin	....	45, 515
" "	"	"	214	....	Fehling	A., 49, 186	
" "	"	"	217.3 c. (748)	....	Kopp	A., 95, 327	
" methylmalonate	$\text{COOEt}.\text{CHMe}.\text{COOEt}$	"	196.5 c.	....	....	A., 204, 146	
" "	"	"	198.5-199.5 c.	....	Perkin	....	45, 510
Tetramethyl succinic acid	$\text{COOH}.\text{CMe}_2.\text{CMe}_2.\text{COOH}$	"	....	95	Hell and Wittekind	B., 7, 321	27, 683
Suberic acid ...	$\text{C}_6\text{H}_{12}(\text{COOH})_2$	"	....	120	Bromeis	A., 35, 97	
" " ....	"	"	....	140	Dale	A., 130, 208; 132, 244	17, 258
" "	"	"	sb. 150-160	140	Arppe	A., 120, 291	v., 449
" "	"	"	abt. 300	140	Gantter and Hell	B., 13, 1166	38, 875
" " ....	"	"	....	140	" "	B., 14, 1547	40, 891
" "	$\text{COOH}(\text{CH}_2)_6.\text{COOH} (?)$	"	....	140	Baeyer	B., 10, 1286	34, 4
α -Isosuberic acid ....	....	"	....	170-180	Hell and Mülhäuser	B., 13, 475	38, 542
α- " " ....	....	"	....	184-185	" "	B., 13, 482	38, 543
β- " " ....	....	"	....	110-125	" "	B., 13, 475	38, 542
β- " " ....	....	"	....	127	" "	B., 13, 482	38, 543
Methylic homoitaconate (tetraylene-dicarboxylate)	$\text{C}_4\text{H}_8(\text{COOMe})_2$	"	220	....	Markownikoff and Krestownikoff	A., 208, 333	40, 1127
Dialdanic acid	$\text{CH}_3.\text{CH}(\text{OH}).\text{CH}_2.\text{CH}:\text{CH}.\text{CH}(\text{OH}).\text{CH}_2.\text{COOH}$	"	198 i. v.	80	Wurtz	C. R., 83, 1259	31, 588
" "	"	"	198 (20)	80	"	B. S. [2], 24, 100	30, 65
From hydrosuberan carboxylic acid	$\text{C}_8\text{H}_{12}\text{O}_4 (?)$	"	....	100	Dale & Schorlemmer	....	39, 542
Diethylene diacetate....	$(\text{AcO}.\text{CH}_2.\text{CH}_2)_2\text{O}$	$\text{C}_8\text{H}_{14}\text{O}_6$	245-255	....	Wurtz	A. C. [3], 69, 335; J., 16, 489	ii., 568
Diethylic diglycollate	$\text{O}(\text{CH}_2.\text{COOEt})_2$	"	240 d.	....	....	A., 147, 201; 149, 95	
Ethylic dilactate ....	....	"	235	....	Wurtz and Friedel	J., 14, 377	
Diethylic malate	$\text{COOEt}.\text{CH}_2.\text{CH}(\text{OH}).\text{COOEt}$	"	128-131 (15)	....	Andreoni	B., 13, 1394	
Oxysuberic acid ....	....	"	....	137	Gantter and Hell	B., 15, 149	
Terpenylic acid	$\text{C}_8\text{H}_{12}\text{O}_4 + \text{H}_2\text{O}$	"	....	57.5-58.5	Amthor	A. P. [3], 18, 356	42, 44
Diethylic dextrotartrate	$\text{COOEt}.\text{CH}(\text{OH}).\text{CH}(\text{OH}).\text{COOEt}$	$\text{C}_8\text{H}_{14}\text{O}_6$	162 (19); 280 (760)	Liquid	Anschütz & Pictet	B., 13, 1177	38, 876
Dimethylic mucate	$\text{C}_4\text{H}_8\text{O}_4(\text{COOMe})_2$	$\text{C}_8\text{H}_{14}\text{O}_8$	d. 165	....	....	A. C. [2], 63, 92	
Hydrogen ethylic mucate	$\text{C}_4\text{H}_8\text{O}_4(\text{COOH})(\text{COOEt})$	"	....	100 d.	Limpricht	A., 165, 253	vii., 827
Ethylmucic acid	$\text{C}_4\text{H}_7\text{EtO}_4(\text{COOH})_2$	"	....	190 d.	....	....	iii., 1059
Allylmethylpropylcarbinol	$(\text{CH}_2:\text{CH}.\text{CH}_2)\text{MePr}^a.\text{COH}$	$\text{C}_8\text{H}_{16}\text{O}$	159-160 (742.8)	Liquid	Semlianizin	B., 12, 2375; J. p. [2], 23, 263	38, 372; 40, 402
Allyldiethylcarbinol	$(\text{CH}_2:\text{CH}.\text{CH}_2)\text{Et}_2.\text{COH}$	"	156 (736.7)	Liquid	Schirikoff & Saytzeff	B. S. [2], 31, 67	36, 448

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Caprylic aldehyde ....	....	$C_8H_{16}O$	171 (760)	Liquid	Bouis	A. C. [3], 48, 99	i., 746
" " ....	....	"	178	Liquid	Limpricht	A., 93, 242	"
Methyl butyrone	$C_7H_{13}MeO$	"	180	Liquid	"	A., 108, 184	i., 698
Hexylmethyl ketone	$Me.CO.(CH_2)_5.CH_3$	"	171-171.5	Liquid	Städeler	J. p., 72, 246	iii., 1009
" "	"	"	173	....	Schorlemmer	....	27, 1029
" "	"	"	172.6-173.1 (753)	....	Brühl	A., 203, 29	
" "	"	"	172-173	....	Neison	....	27, 507
" "	"	"	171-172	....	"	....	27, 842
" "	"	"	171-172	....	"	....	27, 850
" "	"	"	170-172	....	"	....	27, 846
" "	"	"	172 (760)	....	Petersen	A., 118, 75	
" "	$Me.CO.C_5H_{13}$	"	163-165	....	Harting	J. p. [2], 23, 476	40, 795
" "	$Me.CO.C_3H_7.CHMe_2$	"	208-210	Liquid	Poetsch	A., 218, 56	44, 729
Amylethyl ketone	$Et.CO.C_5H_{11}$	"	153-155	Liquid	Harting	J. p. [2], 23, 449	40, 794
" "	$Et.CO.CEtMe_2$	"	150.5-151.5	....	Wichnegrodsky	B., 8, 541; A., 178, 107	28, 878
" "	"	"	145-150	Liquid	Lawrenowitsch	B., 8, 768; A., 185, 126; B. S. [2], 27, 265	29, 897; 32, 306
Isopropyl isobutyl ketone	$CHMe_2.CO.CH_2.CHMe_2$	"	159-161 (743)	l. -17	Carleton-Williams	....	35, 130
Isoamyl allyl oxide	$CH_2:CH.CH_2.O.C_5H_{11}$	"	abt. 120	....	Berthollet and De Luca	A. C. [3], 43, 292	i., 142
Octylene oxide ....	....	"	145	Liquid	De Clermont	C. R., 68, 1323; Z. C. [1870], 411	vi., 881
From diisopropyl glycol ....	....	"	120-122	....	Fossek	M. C., 4, 663	46, 38
" " " " ....	....	"	260-262	....	"	"	"
From $C_3H_7(OH)_2$	From isobutaldehyde	"	122-124	....	"	M. C., 3, 624	42, 1279
" " " "	"	"	262-264	....	"	"	"
Hexylic acetate	$CH_3.(CH_2)_5.OAc$	$C_8H_{18}O_2$	168.7 c. (760 r.)	....	Franchimont and Zincké	B., 4, 823	vii., 646; 25, 61
" " " "	"	"	158-160	....	Schorlemmer	P. T. [1872], 111	vii., 645
" " " "	Methyl propyl etholacetate	"	162.2	....	....	M. C., 4, 33	
" " " "	$CH_3.(CH_2)_3.CH(OAc).CH_3$	"	158-160	....	Schorlemmer	P. T. [1872], 111	vii., 645
" " " "	"	"	154-157	....	Lieben	A., 178, 20	29, 60
" " " "	"	"	146-150	....	Schorlemmer	P. T. [1878], 1	32, 866
" " $-\beta$ ....	....	"	156-157 (787)	Liquid	Wanklyn and Erlenmeyer	J., 16, 522	iii., 152
" " " "	From diisopropyl chloride	"	155-160	....	Silva	B., 6, 147	
" " " "	$C_4H_9.CH(OAc).CH_3$	"	145-155	....	Morgan	....	28, 303
" " " "	$C_3H_7.CH(OAc).Et$	"	149-151	Liquid	Coninck	C. R., 82, 92	29, 694
" " " " ....	....	"	149-151	....	Echsner	B., 9, 193	
" " $-\alpha$ ....	....	"	abt. 145	....	Cahours & Pelouze	C. R., 54, 1245; J., 16, 527	iii., 152; vii., 645
" " " " ....	....	"	140-145	....	Buff	J., 21, 336	
" " " "	$CHMe_2.C(OAc).Me_2$	"	140-143	....	Friedel and Silva	C. R., 76, 226	vii., 982; 26, 489
Amylic propionate	$CH_3.CH_2.COOC_5H_{11}$	"	155	....	Wrightson	J., 6, 439	
" " " "	"	"	160.2	....	Elsasser	A., 218, 302	44, 967
Butylic butyrate	$CH_3.(CH_2)_2.COOC_4H_9$	"	165.5 (735.7)	Liquid	Lieben and Rossi	A., 158, 170	24, 522; vii., 216
" " " "	"	"	164.77	....	Linnemann	A., 162, 39; A., 161, 195	vii., 203; 25, 396
Isobutylic butyrate	$CH_3.(CH_2)_2.COOC_3H_7$	"	156.9	....	Elsasser	A., 218, 302	44, 967
" " " "	"	"	156.9 (760)	....	Schumann	G. J. C., 1881	
" " " "	"	"	150-155 u. c. (722)	....	Grünzweig	A., 162, 207	vii., 226; 26, 374
Butylic butyrate } 2 samples	$C_3H_7.COOC_4H_9$	"	149.5 (758)	Liquid	Pierre and Puchot	J. Ph. [4], 13, 369	24, 903
" " " " }	"	"	149.5	....	" "	A. C. [4], 22, 326	
Isobutylic isobutyrate	$CHMe_2.COOC_3H_7$	"	148-150	....	Balbiano	G. I., 8, 371	36, 615
" " " "	$Me_2.CH_2.COOC_3H_7$	"	147.5	....	Schmidt	G. J. C., 1874	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isobutylic isobutyrate	Me ₂ .CH ₂ .COO.CH ₂ .CHMe ₂	C ₈ H ₁₆ O ₂	146·6 (760)	....	Schumann	G. J. C., 1881	
" "	" "	"	146·6	....	Elsasser	A., 218, 302	44, 967
" "	CHMe ₂ .COO.CH ₂ .CHMe ₂	"	144-145	....	Grünzweig	B. S., 18, 125	
" "	" "	"	144-147 (722)	....	"	A., 162, 193	vii., 226; 26, 374
Propylic isovalerate	CHMe ₂ .CH ₂ .COOPr ^a	"	157 (761)	....	Pierre and Puchot	C. R., 66, 302; 76, 1332; Z. C., 12, 660; A. C. P. [4], 22, 297	vi., 964; vii., 62; 26, 1017
" "	" "	"	155·9	....	Elsasser	A., 218, 302	44, 967
Isopropylic isovalerate	CHMe ₂ .CH ₂ .COOPr ^s	"	142 (756)	Liquid	Silva	A., 153, 136; Z. C., 12, 508	vi., 966
Ethyl caproate	CH ₃ .(CH ₂) ₄ .COOEt	"	166·9-167·3 (738)	....	Lieben & Janecek	A., 187, 126; A., 170, 94	32, 879
" "	" "	"	165·5-166 (735·8)	....	" "	"	"
" "	" "	"	164·9-165·9	....	" "	A., 187, 126	"
" "	" "	"	165·5-166 (735·8)	....	Lieben and Rossi	A., 165, 118; G.I., 1, 314	26, 268; vii., 250
" "	" "	"	164·9-165·9	....	Franchimont and Zincké	A., 163, 193	
" "	" "	"	166·5-168·5 c.	....	Perkin	....	45, 501
" "	C ₅ H ₁₁ .COOEt	"	162	Liquid	Fehling	A., 53, 399	i., 744
" "	CHMe ₂ .(CH ₂) ₂ .COOEt	"	160·4 c. (737)	....	Lieben and Rossi	A., 165, 125	vii., 250; 26, 268
" "	CHMePr ^a .COOEt	"	150-155	....	Kelbe and Warth	B., 15, 309	42, 711
" "	" "	"	151·8	....	....	M. C., 4, 26	
" "	" "	"	153	....	Saytzeff	B., 11, 512; A., 193, 352	34, 566
" "	CHEt ₂ .COOEt	"	151	....	Schnapp	B., 10, 1953	34, 293
" "	" "	"	151	....	Frankland & Duppa	J., 18, 308	
" "	" "	"	151	....	Saytzeff	B., 11, 511; A., 193, 352	34, 566
" "	" "	"	151·5	....	Fittig	A., 200, 27	38, 376
" "	C ₅ H ₁₁ .COOEt	"	120	....	Lech	A., 49, 212	
Methyl cenanthyate	CH ₃ .(CH ₂) ₅ .COOMe	"	180	....	....	J. [1866], 323	
" "	" "	"	172·5-173·5	....	Cahours & Demarçay	C. R., 89, 331	36, 1037
" "	Me ₂ .CH(CH ₂) ₃ .COOMe	"	166	Liquid	Poetsch	A., 218, 56	44, 730
" "	CH ₃ .(CH ₂) ₃ .CHMe.COOMe	"	156-157 c.	l. — 20	Hecht	A., 209, 324	42, 41
Caprylic acid	CH ₃ .(CH ₂) ₆ .COOH	"	239-241	s. 7	Cahours & Demarçay	C. R., 89, 331	36, 1037
" "	" "	"	236-238	15	....	....	i., 745
" "	" "	"	236-237 (761·7)	16-16·5	Renesse	A., 171, 380	27, 1155
" "	" "	"	235-238 (757·8)	16-17	"	"	"
" "	" "	"	230-234	16-17	Zincké	Z. C. [2], 5, 56	vi., 395
" "	" "	"	....	16-17	"	A., 152, 9	vi., 878
" "	" "	"	236-240	14-15	Fehling	A., 53, 401	
" "	" "	"	238	5	Perrot	J., 10, 353	
" "	" "	"	....	13	Fischer	A., 118, 315	
" "	" "	"	211 (338)	15	....	....	45, 485
" "	CHMe ₂ .(CH ₂) ₄ .COOH	"	236-237	16	Canzoneri	G. I., 13, 514	46, 461
" "	" "	"	235-237	16-17	Burton	A. C. J., 3, 385	42, 600
" "	C ₆ H ₁₃ .CH ₂ .COOH	"	232-234	....	Lundahl	B., 16, 789	
" "	CHMe ₂ .(CH ₂) ₂ .CHMe.COOH	"	218-220	l. — 17	Burton	A. C. J., 3, 385	"
" "	" "	"	218-220 (767)	l. — 17	Williams	....	35, 128
" "	CHPr ^a ₂ .COOH	"	219·5	Liquid	Burton	A. C. J., 3, 385	42, 600
" "	CMe ₃ .CH ₂ .CHMe.COOH	"	205-218 p. d. 215	Liquid	Butlerow	A., 189, 70	34, 124
" "	CMe ₃ .CHMe ₂ .COOH (?)	"	210-230	....	....	A., 202, 315	
Oxocetenol (alcohol)	CMe ₃ .CO.C(OH)Me ₂ or CMe ₂ .O.C(OH).CMe ₃	"	178-178·5	49·5	Butlerow	J. R. [1882], 199	
Isoamylglycidic ether	....	"	188	....	Reboul	A. C. [3], 60, 59	ii., 897

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Octyl alcohol	$\text{CHMe}_2(\text{CH}_2)_3\text{CHMe.OH}$	$\text{C}_8\text{H}_{18}\text{O}$	180 (760)	....	Bouis	C. R., 38, 935 ; 41, 603 ; A. C. [3], 44, 128	iv., 171
" "	"	"	179	....	Squire	....	iv., 171
" "	"	"	178	....	Moschnin	J. F. P., 60, 207	
" "	"	"	177-178 (755)	....	Schorlemmer	27, 1029	vii., 868
" "	"	"	177.6-177.8 (744)	....	Brühl	A., 203, 28	
" "	$\text{C}_6\text{H}_5\text{.CHMe.OH}$	"	174-178	Liquid	De Clermont	B. S. [2], 12, 212	vi., 880
" "	$\text{CHMe}_2\text{.CH}_2\text{.CH}_2\text{.CHMe.}$ CH_2OH	"	179-180 (765)	l. -17	Carleton-Williams	....	35, 127
" "	$\text{CHEt}_2\text{.CHEt.OH}$	"	165-166	....	Winogradow	B., 10, 407	32, 589
" "	"	"	164-166	l. -30	"	A., 191, 141	34, 486
" "	$\text{C}_6\text{H}_{11}\text{.CHEt.OH}$	"	163-165	....	Harting	J. p. [2], 23, 467	40, 794
" "	$\text{CHMe}_2\text{.CHOH.CH}_2\text{.CHMe}_2$	"	160-163 (755)	l. -17	Carleton-Williams	....	35, 127
" "	$\text{CMe}_3\text{.CH}_2\text{.CMe}_3\text{.OH}$	"	146.5-147.5	s. -20	Butlerow	B., 9, 1687 ; C. C. [1877], 2 ; A., 189, 53	31, 448 ; 32, 874 ; 34, 122
" "	$\text{Pr.CEt}_2\text{.OH}$	"	145-155	....	....	Z. C. [1865], 615	
Heptylmethyl oxide	$\text{C}_7\text{H}_{15}\text{.O.Me}$	"	160.5-161	Liquid	Wills	J., 6, 510	iii., 149 ; 6, 314
Hexylethyloxyde	$\text{CH}_3(\text{CH}_2)_5\text{.O.Et}$	"	abt. 134-137	....	Lieben and Janecek	A., 187, 139	32, 881
" (secondary)	$\text{C}_6\text{H}_{13}\text{.O.Et}$	"	131-133	....	Schorlemmer	Z. C. [1866], 606 ; A., 144, 241	19, 357
" "	"	"	132-134	....	Reboul and Truchot	J., 20, 582	
Diethylethyloxyde	$\text{C}_2\text{H}_5\text{Et}_2\text{.O.Et}$	"	131.1	....	Lieben	A., 187, 14	29, 59
Amylpropyloxyde	$\text{C}_5\text{H}_{11}\text{.O.Pr}^a$	"	125-130	....	Chancel	C. R., 68 ; A., 151, 305	vi., 964
Dibutyloxyde	$(\text{CH}_3\text{.CH}_2\text{.CH}_2\text{.CH}_2)_2\text{O}$	"	140.5 (741.5)	....	Lieben and Rossi	A., 165, 110	vii., 217 ; 26, 367
" "	$(\text{CHEtMe})_2\text{O}$	"	123	....	Hanriot	A. C. P. [5], 25, 219	42, 590
" "	$(\text{CHEtMe})_2\text{O}$	"	120-122	....	Kessel	B., 7, 291	27, 677
" "	"	"	120-121	Liquid	Kessler	A., 175, 54	28, 554
" "	$(\text{CHMe}_2\text{.CH}_2)_2\text{O}$	"	100-104 ; 110	....	"	A., 175, 55	
" "	"	"	104	....	....	....	ii., 537
Octylene glycol	$\text{C}_8\text{H}_{16}(\text{OH})_2$	$\text{C}_8\text{H}_{18}\text{O}_2$	235-240	....	Clermont	C. R., 59, 80 ; As., 3, 254	iv., 173 ; vi., 68
Methylethylpinacone	$\text{CMeEt(OH).CMeEt(OH)}$	"	200-205	28	Lawrinowitsch	B., 8, 767 ; A., 185, 124	29, 897 ; 32, 428
" "	"	"	201-203 (745)	28-29	Schranm	B., 16, 1582	44, 1080
Diisopropylglycol	$\text{CHPr}^B(\text{OH}).\text{CHPr}^B(\text{OH})$	"	....	91	Fossek	M. C., 4, 663	46, 37
" " ....	"	"	....	90	"	M. C., 3, 623	42, 1279
Glycol from isobutaldehyde....	$\text{C}_8\text{H}_{16}(\text{OH})_2$	"	222-223	51.5	"	M. C., 3, 623 ; M. C., 4, 663	42, 1279 ; 46, 37
Diethoxybutane	$\text{CH}_2(\text{OEt}).(\text{CH}_2)_2\text{.CH}_2(\text{OEt})$	"	131.4	....	....	A., 178, 14	
Propyl acetal	$\text{CH}_3\text{.CH(OPr}^a)_2$	"	146-148	....	Girard	C. R., 91, 629	40, 35
" "	"	"	142	....	Bachmann	A., 218, 38	44, 727
Amylmethyl acetal	$\text{CH}_3\text{.CH(OMe)(OC}_6\text{H}_{11})$	"	141-144	....	"	"	"
Isobutyl acetal	$\text{CHMe}_2\text{.CH(OEt)}_2$	"	168-170	....	Girard	C. R., 91, 629	
" "	"	"	134-136	....	"	C. R., 92, 886	
Ethylloxethyloxyde	$\text{Et.C}_2\text{H}_4\text{.O.C}_2\text{H}_4\text{.OEt}$	"	148	Liquid	Lieben	A., 133, 287	iv., 288 ; vi., 598
Isoamylglyceric ether (amylin)	$\text{C}_3\text{H}_5(\text{OH})_2(\text{OC}_6\text{H}_{11})$	$\text{C}_8\text{H}_{18}\text{O}_3$	260-262	....	Reboul	J., 13, 464	ii., 884
Amylic dimethylic orthoformate	$\text{CH(OMe)}_2(\text{OC}_6\text{H}_{11})$	"	234-240	....	Pinner	B., 16, 1643	44, 1089
Propylic diethylic orthoformate	$\text{CH(OEt)}_2(\text{OPr})$	"	165-170	....	"	"	"
Methylic dipropylic orthoformate	$\text{CH(OPr)}_2\text{OMe}$	"	180-182	....	"	"	"
Diethoxyethyloxyde	$(\text{EtO.C}_2\text{H}_4)_2\text{O}$	"	abt. 168	Liquid	Lieben	A., 133, 287	iv., 288 ; vi., 597
" "	$(\text{CHMe.OEt})_2\text{O}$	"	80-84	....	Jacobsen	B., 4, 216	vii., 481
Ethylglycol acetal	$\text{CH}_2\text{OEt.CH(OEt)}_2$	"	164	Liquid	Pinner	B., 5, 150	vii., 1 ; 25, 407
" "	"	"	168	....	....	A., 146, 196	
Triethoxyethane	$\text{CH}_3\text{.C(OEt)}_3$	"	142	Liquid	Geuther	J. Z. 4, 221 ; Z. C. [2], 7, 128	vii., 8 ; 24, 515

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethylidene oxethylalcoholate	$C_4H_8(OEt)_2O$	$C_8H_{18}O_3$	153	Liquid	Laatsch	A., 218, 13	44, 788
Tetraethylene glycol....	$(HO.C_2H_4.O.C_2H_4)_2O$	$C_8H_{18}O_5$	a. 300 o.p.; 230 (25)	....	Lourenço	B. S. [1859], 77	ii., 577
Dimethyl (or ethyl) mannite	....	$C_8H_{18}O_6$	....	230-250	Tollens	B., 15, 1633	
Ethylperoxide	Et_4O_3	$C_8H_{20}O_3$	....	1.-40	Berthelot	A. C. [5], 27, 229; C. R., 92, 895	44, 305; 40, 709
Trimethylcarbinol hydrate	$2(CMe_3.OH) + H_2O$ see $C_4H_{10}O$	$C_8H_{22}O_3$	80	l. o.; s. f. m.	Butlerow	Z. C. [2], 7, 273; A., 162, 228	24, 1035; 26, 369; vii., 221
Benzonaphthone	$(C_9H_4O)_2$	$C_{18}H_8O$	....	a. 300	....	....	39, 220
Trimellitic anhydride	$C_6H_2(COOH).CO.O.CO$	$C_9H_4O_6$	....	157-158	Baeyer	A., 166, 340	vii., 785; 26, 756
"	"	"	....	158	Emmerling	B., 12, 1446	38, 265
Coumarin	....	$C_9H_6O_2$	270	50	....	....	ii., 93
"	....	"	290.5-291	67-67.5	Perkin	21, 53; A., 147, 229	vi., 496, 1010
"	$C_6H_4.CH : CH.CO.O = 1.2$	"	290	....	"	B., 8, 1599	29, 439
"	....	"	291	....	Brühl	B., 9, 1368	31, 165
Phenylpropionic acid	$Ph.C : C.CO.OH$	"	....	134-137	Paternò	G. I., 2, 553	28, 636
"	"	"	....	136-137	Glaser	Z. C. [2], 4, 328	vi., 962
Methylene phthalyl	$C_6H_4 : (CO)_2 : CH_2 = 1.2$	"	....	217-219.5	Gabriel	B., 14, 926	40, 733
Hydroxymethylene phthalyl	$C_6H_4 : (CO)_2 : CH.OH$	$C_9H_6O_3$	....	145-146	Gabriel and Michael	B., 11, 1012	34, 734
Coumarilic acid	$C_6H_4.CH : C(COOH).O$	"	....	192-193	Perkin	24, 46	vi., 498
"	"	"	310-315 s. d.	190-191	Fittig and Ebert	A., 216, 162	44, 474
Umbelliferone	$C_6H_3(OH).CH : CH.CO.O$ = 1.2. ?	"	....	223-224	Tiemann & Reimer	B., 12, 994	36, 720
"	"	"	....	224	Posen	B., 14, 2745	
"	"	"	....	240	Tiemann and Lewy	B., 10, 2218	
β-	"	"	....	d. w. m. 200	"	"	
Bergapten	....	"	....	206.5	....	A., 31, 70, 320	
Methoxyphthalic anhydride	$C_6H_3(OMe) : (CO)_2 : O = 1.2.3$	$C_9H_6O_4$	....	87	Jacobsen	B., 16, 1964	44, 1124
"	" = 1.3.4	"	....	93	Schall	B., 12, 829	36, 793
Æsculetin	$C_9H_6O_4 + H_2O$	"	d. a. 270	a. 270	Zwenger	A., 90, 68	i., 59
"	$C_9H_6O_4 + \frac{1}{2}H_2O$	"	....	a. 250	"	"	
Daphnetin	$C_6H_3(OH)O_3$	"	....	253-256 u. c.	Stünkel	B., 12, 111	36, 469
Opinic acid	$C_9H_6O_5 + 2H_2O$	$C_9H_6O_6$	....	148	Liechti	As., 7, 149	29, 296
Methoxynorhemipinic anhydride	"	"	....	148	"	As., 7, 153	
? Acid	....	"	....	177-197 (sic)	Breuer and Zincké	B., 14, 1897	
Benzene tricarboxylic acid	$C_6H_3(COOH)_3 = ?$	$C_9H_6O_6$	....	149-150 p. d.	Woelz	A., 168, 81	26, 1143
Hemimellitic acid	" = 1.2.3	"	....	185 d.	Baeyer	As., 7, 31	vi., 811
Trimellitic acid	" = 1.2.4	"	....	216	"	As., 7, 40	vi., 813
"	"	"	....	216-218	Krinos	B., 10, 1495	
"	"	"	....	216	Hammerschlag	B., 11, 88	
Trimesic acid	" = 1.3.5	"	....	a. 300	Böttinger	B., 7, 1781	28, 568
"	"	"	....	s. w. m. 300	Ost	J. p. [2], 15, 301	32, 486
"	"	"	....	a. 300	Baeyer	As., 7, 22	
Aldehydo-β-hydroxyisophthalic acid	$OH.(COOH)_2.CO.H = 1.2.6.4$	"	....	237-238	Reimer	B., 11, 795	34, 882
Aldehydo-α-hydroxyisophthalic acid	" = 1.2.4.6	"	....	260 d.	"	B., 11, 793	"
Hydroxytrimellitic acid	$C_6H_2.OH(COOH)_3 = 1.2.4.5$	$C_9H_6O_7$	....	240-245 d.	Jacobsen and Meyer	B., 16, 192	44, 590
Hydroxytrimesic	" = 1.2.3.5	"	....	270	Reimer	B., 11, 796	34, 882
Polyporic acid	....	$(C_9H_7O_2)_2$	....	a. 220	Stahlschmidt	A., 187, 177	32, 620
Phenylpropargyl oxide	$PhO.C_2H_3$	C_9H_8O	210	Liquid	Henry	C. R., 96, 1233	44, 803
Cinnamic aldehyde	$C_6H_5.CH : CH.CHO$	"	247-248	....	Perkin	....	31, 403
Action of acetylchloride on benzaldehyde and Zn. dust	....	$C_9H_8O_2$	....	125-128	Paal	B., 15, 1818	44, 62
Hydrocoumaric anhydride	....	"	272	25	Zwenger	As., 5, 106	vi., 716
Cinnamic acid	$C_6H_5.CH : CH.CO.OH$	"	280-290	....	Beilstein & Kuhlburg	Z. C. [2], 7, 487	25, 300
"	"	"	293	....	Dumas and Peligot	A. C., 57, 311	i., 984
"	"	"	300-304	129	Kopp	J. F. P., 37, 280	"
"	"	"	....	132	Conrad	B., 13, 2160	40, 168

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Cinnamic acid	$C_6H_5.CH:CH.CO_2H$	$C_9H_8O_2$	....	132	Stuart	....	43, 407
" " ....	"	"	....	133.4	....	....	vi., 249
" " ....	"	"	....	133	Busse	B., 9, 832	30, 641
" " ....	"	"	....	133	Ogilaloro	G. I., 8, 429	36, 641
" " ....	"	"	....	133.3	Kachler	Z. C. [2], 6, 60	vii., 160
" " ....	"	"	....	132.6-132.8	Kraut	G. J. C., 1868	.
" " ....	"	"	....	133	Miller	G. J. C., 1877	.
" " ....	"	"	....	133	Tiemann & Herzfeld	B., 10, 69	.
" "	"	"	300	....	Weger	A., 221, 61	46, 11
Atropic acid	$C_6H_5.C(COOH):CH_2$	"	....	104-106	Pesci	G. I. [1881], 538	42, 740
" " ....	"	"	....	106.5	Kraut	A., 133, 93; 148, 242	vi., 249
" " ....	"	"	....	106	Ladenburg and Rugheimer	B., 13, 373	38, 472
" " ....	"	"	....	105.5-107.5	" "	B., 13, 2042	.
" " ....	"	"	....	106.5	Fittig and Wurster	A., 195, 147	36, 379
" " ....	"	"	....	106-107	Spiegel	B., 14, 237	.
" " ....	"	"	....	106.5	Schmidt	B., 13, 370	38, 482
" "	"	"	202-204 (75)	....	....	A.	.
Alorcinic anhydride ....	....	"	....	138	....	A., 167, 69	.
Methylenedioxy mandelic acid	$C_6H_3(O_2CH_2)(CHOH.CO_2H)$	"	....	152-153	Lorenz	B., 14, 793	.
" ?	See $C_{18}H_{18}O_4$	"	....	125-128	Paal	B., 15, 1819	.
Isatropic acid	See $C_{18}H_{16}O_4$	$(C_9H_8O_2)_2$	....	....	....	....	.
Acetyl benzoate	$C_6H_5.CO.OAc$	$C_9H_8O_3$	120	Liquid	Gerhardt	Traité, 3, 319	i., 21
Methylic phenylglyoxylate	$Ph.CO.CO_2Me$	"	246-248 (760)	....	Claisen	B., 12, 629	36, 648
Phenylglycidic acid	$O.CHPh.CH.CO_2H$	"	....	154-155 d.	Plöchl	B., 16, 2821	46, 605
Benzoylacetic acid	$CH_2Bz.CO_2H$	"	....	103-104	Perkin	....	45, 174
" " ....	"	"	....	85-90 d.	Bayer and Perkin	B., 16, 2129	46, 63
Acetoxybenzaldehyde	$C_6H_4.OAc.CO_2H = 1.4$	"	260	Liquid	Barbier	C. R., 90, 37; B. S. [2], 33, 54	38, 318, 468
" "	" "	"	264-265	l. -21	Tiemann & Herzfeld	B., 10, 64	32, 893
" "	" =1.2	"	abt. 253 p. d.	37	Perkin	A., 148, 203	21, 53; vi., 1009
" "	" "	"	254-256	....	Barbier	C. R., 90, 37	38, 318
" "	" =1.3	"	263	Liquid	Tiemann & Ludwig	B., 15, 2047	44, 188
Acetylbenzoic acid (aceto-phenone carbonic)	$C_6H_4.Ac.CO_2H = 1.2$	"	....	114-115	Gabriel & Michael	B., 10, 1554	34, 229
" " " "	" =1.4	"	....	200	R. Meyer	B., 12, 1071	36, 795
Toluylic carboxylic acid	$C_6H_4.Me.(CO.CO_2H) = 1.4$	"	....	abt. 99	Roser	B., 14, 1750	42, 194
Coumaric acid	$C_6H_4.OH(CH:CH.CO_2H) = ?$	"	....	190	....	....	ii., 93
" "	" =1.2	"	....	207-208 d.	Tiemann & Herzfeld	B., 10, 286	31, 709
" " ....	" "	"	....	185	Schotten	B., 11, 788	34, 878
" "	" =1.3	"	....	191	Tiemann & Ludwig	B., 15, 2040	44, 189
" "	" =1.4	"	....	179-180	Hlasiwetz	A., 136, 31	vi., 897
" " ....	" "	"	....	198-200 d.	Gabriel	B., 15, 2301	.
" " ....	" "	"	....	206	Tiemann & Herzfeld	B., 10, 66	32, 893
Hydrocoumarilic acid	$O.C_6H_4.CH_2.CH.CO_2H$	"	298.5-300.5 d.	116.5	Fittig and Ebert	A., 216, 166	44, 474
Paracumarhydrin ....	....	"	....	82-83	....	A., 199, 36	.
" " ....	....	"	....	85	Jobst and Hesse	B., 10, 249	32, 201
Acetylbenzoic anhydride ....	....	"	....	70	....	A., 135, 92	.
Benzoglycollic acid	$C_6H_5.CO.O.CH_2.CO_2H$	$C_9H_8O_4$	....	120	Conrad	J. p. [2], 15, 241	32, 484
Benzalmalonic acid	$Ph.CH:(CO_2H)_2$	"	....	193 d.	Stuart	....	43, 405
Acetylsalicylic acid	$C_6H_4.OAc.CO_2H = 1.2$	"	....	s. 118-118.5	Gilm	A., 112, 181	vi., 1007
" ?	$C_6H_4.CO_2H.(CH_2.CO_2H) = 1.3$	"	....	s. w. m. 200-210	Allen & Underwood	B. S., 40, 100	46, 587
Toluene dicarboxylic acid (isouvitic)	$Me.(CO_2H)_2 = ?$	"	....	180 [160]	Hlasiwetz	A., 138, 70	vi., 628
" " (uvitic)	" =1.3.5	"	230	Hall and Remsen	A. C. J., 2, 130	40, 821
" " " "	" "	"	287-288	Fittig & Furtenbach	Z. C. [2], 4, 1	vi., 821
" " " "	" "	"	287	Finck	A. 122, 184	iv., 770

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Toluene dicarboxylic acid (uvitic)	$\text{Me.}(\text{COOH})_2 = 1.3.5$	$\text{C}_9\text{H}_8\text{O}_4$	288	Böttiger	B., 8, 1585	29, 566
" " ....	" =?	"	....	abt. 270 d.	Blomstrand and Hakansson	B., 5, 1088	26, 506; vii., 1171
" " (xylidic)	" =1.2.5	"	....	280-283	Fittig & Laubinger	Z. C. [2], 4, 597; A., 151, 276	vi., 1130
" " " "	" "	"	....	291	" "	"	"
" " (β - ")	" =1.2.4	"	....	320-330; sf. 310	Jacobsen	B., 14, 2112	42, 188
" " (isoxylidic)	" =?	"	....	315; sf. 280	Senhofer	A., 164, 135	25, 1018; vii., 1171
Ethylene protocatechuic acid	$\text{C}_6\text{H}_3(\text{COOH})\text{:O}_2\text{:C}_2\text{H}_4 = 1.3.4$	"	....	133	Fittig and Remsen	Z. C. [2], 7, 289	vii., 1024
" " " "	" " " "	"	....	133	Fittig & Macalpine	Z. C. [2], 7, 291	24, 1051
" " " "	" " " "	"	....	133-5	" "	A., 168, 99	26, 1144
Pyrogallol carbonethyl ether	$\text{C}_6\text{H}_3\text{:O}_2\text{:C.OEt} = 1.2.3$	"	250-280 p.d.	105	Bender	B., 13, 698	40, 48
β -Methylresorcinoldialdehyde	$\text{OMe.OH.}(\text{COH})_2 = 1.3. (?)_2$	"	....	88-89	Tiemann & Parrisius	B., 13, 2369	40, 271
α- " " " "	" " " "	"	....	179	" "	"	"
α -Orcendialdehyde	$\text{C}_6\text{HMe}(\text{OH})_2(\text{COH})_2$	"	....	117	Tiemann & Helkenberg	B., 12, 1003	36, 720
β- " " " "	" " " "	"	....	168	" "	B., 12, 1004	"
Methyl normeconin ....	....	"	....	125 c.	Beckett and Wright	....	29, 307
? acid ....	....	"	....	a. 200	....	A., 200, 37	"
Methylene dioxyphenylglycollic acid	$\text{H}_2\text{:O}_2\text{:C}_6\text{H}_3\text{.CH}(\text{OH}).\text{COOH}$	$\text{C}_9\text{H}_8\text{O}_5$	....	152-153	Lorenz	B., 14, 793	40, 729
Methoxyphthalic acid	$(\text{COOH})_2.\text{OMe} = 1.2.4$	"	....	138-144	Schall	B., 12, 829	36, 794
" " " "	" =1.2.3	"	....	160 p. d.	Jacobsen	B., 16, 1962	44, 1124
Methoxyisophthalic acid	" =1.3.2	"	....	216-218	Schall	B., 12, 828	36, 794
" " " "	" =1.3.4	"	....	245	Jacobsen	B., 11, 899	36, 793
" " " "	" "	"	....	261	Schall	B., 12, 828	36, 794
Methoxyterephthalic acid	" =1.4.5	"	....	274-275	Paterno & Canzoneri	G. I., 9, 455	33, 247
" " " "	" "	"	....	277-279	Schall	B., 12, 828	36, 794
Methylnoropianic acid	$\text{COOH.OMe.OH.CO} = ?$	"	....	154	....	J. p. [2], 24, 368	"
Aldehydovanillic acid	$\text{COOH.OMe.OH.CO} = 1.3.4.5$	"	....	221-222	Tiemann and Mendelsohn	B., 9, 1280	31, 88
Hydroxyuvitic acid	$(\text{COOH})_2.\text{OH.Me} = 1.3.2.5$ ....	"	....	275; sf. 225-235 d.	Jacobsen	B., 13, 2050; A., 195, 287; 206, 196	40, 172
" " " "	" " " "	"	....	220 d.	Böttiger	B., 9, 810	30, 415
" " " "	" =1.3.4.5 ....	"	....	278 d.	"	B., 13, 1933	40, 172
" " " "	" " " "	"	....	294-295	Hall and Remsen	A. C. J., 2, 137	40, 821
" " " "	" " " "	"	....	290 p. d.	Jacobsen	A., 206, 188	40, 431
" " " "	" " " "	"	....	290 p. d.; sf. 280	"	B., 13, 2050	40, 172
" " " "	" =1.3.4.6 ....	"	....	d. 290	Oppenheim & Pfaff	B., 7, 932	"
" " " "	" =1.3.5.6 ....	"	....	270 p. d.	Jacobsen	B., 14, 2115	42, 188
Hydroxyxylidic acid	" =1.4.2.5 ....	"	....	285-290	Jacobsen and Meyer	B., 16, 190	44, 590
Methylnorhemipinic acid	$\text{OMe.OH.}(\text{COOH})_2 = 1.2.4.5$	$\text{C}_9\text{H}_8\text{O}_6$	....	150-155 d.	Beckett and Wright	....	29, 298
" " " "	" " " "	"	....	153-155	Wegscheider	M. C., 3, 372	42, 1207
Ethyl meconate	$\text{C}_5\text{HO}_2(\text{OH})(\text{COOH})(\text{COOEt})$	$\text{C}_9\text{H}_8\text{O}_7$	....	179	Mennel	J. p., 26, 450	44, 656
" " " "	" " " "	"	....	158-159	....	A., 83, 358	iii., 861
Ethyl meconic acid	$\text{C}_5\text{HO}_2.\text{OEt.}(\text{COOH})_2$	"	....	200 d.	Mennel	J. p., 26, 456	44, 656
Hydropolyporic acid....	....	$(\text{C}_9\text{H}_9\text{O}_2)_n$	....	162	Stahlschmidt	A., 195, 365	36, 383
Cinnamic alcohol (styrone) ...	$\text{Ph.CH:CH.CH}_2\text{OH}$	$\text{C}_9\text{H}_{10}\text{O}$	....	33	....	....	i., 992
" " " "	" " " "	"	....	33	Kerr	P. M. [5], 13, 166	"
" " " "	" " " "	"	220	....	Simon	A., 31, 274	"
" " " "	" " " "	"	230	....	Scharling	A., 115, 90, 183	"
" " " "	" " " "	"	248-252	....	Hatton & Hodgkinson	....	39, 319
" " " "	" " " "	"	250	....	Laubenheimer	A., 164, 289	26, 65
" " " "	" " " "	"	250	....	Wolff	A., 75, 300	"
" " " "	" " " "	"	254	8	Kopp	Co. C. [1850], 113	"
Hydrocinnamic aldehyde ...	$\text{Ph.CH}_2\text{CH}_2\text{COH}$	"	208	A. C. [5], 22, 254	"
Allylphenyloxide	$\text{Ph.O.CH}_2\text{CH:CH}_2$	"	192-195	Liquid	Henry	B., 5, 455	vii., 50; 25, 687

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Ethylphenylketone	Ph.CO.Et	C ₉ H ₁₀ O	205-209	Liquid	Pechmann	B., 15, 891	
"	"	"	205-210	Bechi	B., 12, 463	36, 529
"	"	"	210	....	Kalle	A., 119, 166	
"	"	"	208-210	Liquid	Barry	B., 6, 1007	27, 74
"	"	"	208-212	....	Popoff	B., 4, 720	24, 1058
"	"	"	210	....	Schmidt & Fieberg	B., 6, 498	27, 75
"	"	"	212	....	Frankland & Louis	....	37, 744
"	"	"	217	Liquid	Freund	A., 118, 20	vi., 331
Benzylmethylketone....	C ₆ H ₅ .CH ₂ .CO.Me	"	215	"	Otto	J. p. [2], 1, 144	vii., 940
"	"	"	215	"	Radziszewsky	B., 3, 199	
"	"	"	214-216	....	Popoff	B., 5, 500	25, 821
Tolylmethylketone	Me.C ₆ H ₄ .CO.Me	"	217	Liquid	Michaelis	B., 15, 185	42, 970
Allylphenol (anol)	C ₆ H ₄ (C ₃ H ₅).OH =1.4	"	abt. 250	92.5	Ladenburg	B., 2, 371 ; As., 8, 89	vi., 175
Vinylanisoil	C ₆ H ₄ .OMe.(CH : CH ₂)=1.2	"	195-200	....	Perkin	B., 11, 515	33, 212
"	" =1.4	"	201-202 d.	-1 to -2	"	....	32, 669
"	"	"	204-205	3	"	B., 11, 515	33, 215
"	"	"	204-205	....	"	....	32, 673
Mesityl aldehyde	C ₆ H ₃ .Me ₂ .COH=1.3.5	"	....	Liquid	Robinet	C. R., 96, 500	44, 577
"	"	"	220-222	....	Etard	C. R., 97, 909	46, 312
Epioxyphenylhydrin	CH ₂ (C ₆ H ₄ O)(CH.O.CH ₂)	C ₉ H ₁₀ O ₂	....	Solid	Lippmann	Z. C. [2], 7, 284	24, 1040
Hydratropic acid	C ₆ H ₅ .CHMe.COOH	"	264-265	1. - 20	Fittig and Wurster	A., 195, 165	36, 380
β-Phenylpropionic acid	C ₆ H ₅ .CH ₂ .CH ₂ .COOH	"	....	46	Conrad and Hodgkinson	B., 10, 255	31, 590
(hydrocinnamic or benzyl-acetic)							
" "	"	"	270-280.	....	Stöckly	J. p. [2], 24, 17	42, 77
" "	"	"	279.8	....	Weger	A., 221, 61	46, 11
" "	"	"	280	47	Merz and Weith	B., 10, 758	32, 617
" "	"	"	....	46.5	Fittig	Z. C. [1869], 166	vi., 469
" "	"	"	280: c. (754)	47	Erlenmeyer	A., 137, 327	"
" "	"	"	abt. 280	47	Sesemann	B., 6, 1086	27, 69
" "	"	"	....	47	Hofmann	B., 7, 521	27, 793
" "	"	"	....	47	Oglialoro	G. I., 8, 429	36, 641
Benzyl acetate	C ₆ H ₅ .CH ₂ .OAc	"	210	Liquid	Cannizzaro	A., 88, 130	i., 21
" "	"	"	206	....	....	A., 96, 246 ; 193, 320	
Ethyl benzoate	C ₆ H ₅ .COOEt	"	209	....	Dumas and Boullay	P. A., 12, 430	
" "	"	"	208-209	....	Deville	A. C. [3], 3, 188	
" "	"	"	207	....	Delffs	J., 7, 26	
" "	"	"	213	....	Troost	G. J. C., 1879	
" "	"	"	211	....	Fittica	J. p. [2], 13, 184	36, 153
" "	"	"	211.16	....	Linnemann	A., 162, 39	vii., 203
" "	"	"	212.05 (753.6)	....	Körner	G. I., 4, 305	29, 214
" "	"	"	212.9 (745.5)	....	Kopp	A., 94, 309	i., 553
" "	"	"	215	....	Busse	B., 9, 832	30, 641
Methyl phenylacetate	Ph.CH ₂ .COOMe	"	220	Liquid	Radziszewsky	Z. C. [2], 5, 358 ; B., 2, 208	vi., 1101
Ethylbenzoic acid	C ₆ H ₄ .Et.COOH=1.2	"	....	62	Gabriel & Michael	B., 10, 2206	
" "	" =1.4	"	....	110-111	Fittig	A., 144, 290	vi., 600
" "	"	"	....	110-111	Thorpe and Kekulé	B., 2, 421	
" "	"	"	....	112-113	Aschenbrandt	A., 216, 218	44, 319
Cresylic acetate	C ₆ H ₄ .Me.OAc=1. ?	"	214	Liquid	Perkin and Hodgkinson	....	37, 489
" "	" =1.4	"	208-211	....	Fuchs	B., 2, 626	
Methyl toluate	C ₆ H ₄ .Me.COOMe=1.4	"	217	32	Fischli	B., 12, 616	36, 638
Ethylsalicylöl....	C ₆ H ₄ .OEt.COH=1.2	"	247-249	1. - 18	Perkin	A., 145, 306	20, 418 ; vi., 1009
" "	"	"	246-249	Liquid	Göttig	B., 10, 8	32, 304
Tolylacetic acid	C ₆ H ₄ .Me.(CH ₂ .COOH)=1. ?	"	....	42	Vollrath	Z. C. [1866], 489	v., 1062
" "	" =1.3	"	....	53-54	Radziszewsky and Wispek	B., 15, 1746	
" "	" =1.2	"	....	85.5-86	" "	B., 15, 1747	42, 1283

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tolylacetic acid	$C_6H_4.Me.(CH_2.COOH)=1.4$	$C_9H_{10}O_2$	....	89	Radziszewsky and Wispek	B., 15, 1744	42, 1283
Methoxytoluic aldehyde	$OMe.Me.COH=1.4.6$	"	254	Liquid	Schotten	B., 11, 785	34, 878
Hesperetol	$(CH:CH_2).OH.OMe=1.3.4$	"	....	57	Tiemann and Will	B., 14, 967	40, 740
Xylic acid	$Me.Me.COOH=?$	"	....	Liquid	Beilstein & Kögler	A., 137, 317	vi., 1130
" "	" $=1.3.2$	"	....	97-99	Jacobsen	B., 11, 21	
" "	" "	"	273	103	Hirzel and Beilstein	B. S., 1, 345	v., 1062
" "	" $=1.3.4$	"	....	120	Fittig & Laubinger	A., 151, 271 ; Z. C. [2], 4, 597	vi., 1129
" " ....	" "	"	....	122	Kekule	A., 137, 186	"
" " ....	" "	"	....	125	Schaper	Z. C. [2], 5, 545	"
" " ....	" "	"	....	125-126	Jacobsen	B., 11, 18	34, 410
" "	" "	"	267 (727)	126	Ador and Meier	B., 12, 1968	38, 252
" "	" $=1.4.3$	"	268	132	Jacobsen	B., 14, 2111	42, 187
" " ....	" "	"	....	132	"	B., 14, 2112	"
" "	" $=1.2.4$	"	280	161	Meyer	B., 15, 636	42, 848
" " ....	" "	"	....	163	Fittig & Laubinger	A., 151, 275 ; Z. C. [2], 4, 597	vi., 1130
Mesitylenic acid	" $=1.3.5$	"	....	166	Fittig	A., 141, 144	vi., 823
" " ....	" "	"	....	169-170	Jacobsen	A., 206, 167	40, 430
Lauroxylic acid ....	....	"	....	155	Fittig, Kölrich, and Jilke	A., 145, 151	46, 43; vi., 775
Mesitylene quinone	$Me_3.O_2=1.3.5.2.4$	"	....	101-102	Fittig	B., 6, 1399	27, 263
Ethylic terebenzate ....	....	"	130	....	Caillot	A. C. [3], 21, 31	v., 723
Furfurangelic acid	$C_4H_3O.CH:CH(CH_2)_2.COOH$	$C_9H_{10}O_3$	....	87-88	Baeyer and Tonnies	B., 10, 1364	32, 746
Ethylic phenylic carbonate	$CO(OEt)(OPh)$	"	234	Liquid	Fatianoff	Z. C. P. [1864], 77	vi., 413
Methylic phenoxyacetate	$CH_2(OPh).COOMe$	"	245	Liquid	Fritzsche	J. p. [2], 20, 275	38, 319
" phenylglycollic acid	$Ph.CH(OH).COOMe$	"	....	47-48	Breuer and Zincké	B., 13, 636	38, 645
" " "	"	"	....	113-114	Naquet & Longuine	A., 139, 301	"
Phenylmethoxyacetic acid	$Ph.CH(OMe).COOH$	"	....	71-72	Meyer and Boner	B., 14, 2392	42, 195
Phenyl- α -lactic acid	$Ph.CH_2CH(OH).COOH$	"	....	97-98	Erlenmeyer	B., 13, 303	38, 471
" " ....	"	"	....	98	Conrad	B., 13, 2160	40, 168
Phenyl- β -lactic acid	$Ph.CH(OH).CH_2.COOH$	"	....	93	Erlenmeyer	B., 13, 304	38, 471
" " ....	"	"	....	94	Plochl	B., 16, 2815	46, 606
Atrolactic acid	$CH_3.C(OH)Ph.COOH$	"	....	93-94	Spiegel	B., 14, 1353	42, 520
" " ....	"	"	....	93.5-94	Ladenburg & Rugheimer	B., 13, 374	
" " ....	"	"	....	94-95	Böttinger	B., 14, 1239	
" " ....	"	"	....	93	Tiemann & Köhler	B., 14, 1980	
" " ....	"	"	....	93-94	Fittig and Würster	A., 195, 154	36, 379
" " $+ \frac{1}{2}H_2O$ ....	"	"	....	80-85	" "	"	"
" " ....	"	"	....	89-91	Spiegel	B., 14, 1353	42, 520
" " ....	"	"	....	90-91	Böttinger	B., 14, 1239	
" " ....	"	"	....	91	Tiemann & Köhler	B., 14, 1980	
α -Phenoxypropionic acid	$CH_3.CH(OPh).COOH$	"	....	112-113	Saarbach	J. p. [2], 19, 175	36, 642
" " ....	"	"	....	112.5	"	J. p. [2], 21, 152	38, 393
Tropic acid	$CH_2(OH).CHPh.COOH$	"	....	117-118	Spiegel	B., 14, 238	
" " ....	"	"	....	117	Fittig and Würster	A., 195, 147	36, 379
" " ....	"	"	....	117-118	Ladenburg	B., 13, 254	38, 674
" " ....	"	"	....	117-118	Lossen	A., 138, 233	vi., 249
" " ....	"	"	....	117-118	Ladenburg and Rugheimer	B., 13, 379	38, 472
Methylic methoxybenzoate....	$C_6H_4.OMe.COOMe=1.2$	"	228	....	Fölsing	B., 17, 486	46, 897
" "	" "	"	244-246 (732)	....	Schreiner	A., 197, 18	
" "	" "	"	248		Cahours	C. R., 39, 256	v., 162
" " (anisate)	" $=1.4$	"	255	45-46	Ladenburg & Fitz	A., 141, 252	vi., 899
" " " ....	" "	"	....	abt. 47	Cahours	A., 56, 311; A. C. [3], 14, 492	i., 301

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl hydroxybenzoate (salicylate)	$C_6H_4.OH.CO_2Et=1.2$	$C_9H_{10}O_3$	226-228	Liquid	Göttig	B., 9, 1473	31, 313
" " "	" "	"	233 (730)	Liquid	Schreiner	A., 197, 17	
" "	" =1.3	"	....	67	Barth	A., 148, 30	vi., 890
" " ....	" "	"	....	72-74	Gräbe & Schultzen	A., 142, 351	"
" "	" "	"	282	72	....	A., 153, 336	
" "	" =1.4	"	297-298	112-5	Gräbe	A., 139, 146	vi., 890
" " ....	" "	"	....	116	Hartmann	J. p. [2], 16, 50	32, 895
Ethoxybenzoic acid	$C_6H_4.OEt.CO_2H=1.2$	"	221	Liquid	Delffs	J., 7, 26	v., 165
" "	" "	"	225	....	Cahours	A. C. [3], 10, 369	"
" "	" "	"	229-5	....	Baly	2, 28	"
" " ....	" "	"	....	19-3-19-5	Kraut, Schröder, and Prinzhorn	A., 150, 1	vi., 1006
" " ....	" "	"	....	19-5	Spica	G. I., 9, 433	38, 167
" " ....	" "	"	....	19-4	"	A., 216, 152	"
" " (?)	" =1.3 (?)	"	....	115-117	Beilstein and Kuhlberg	Z. C. [2], 5, 461	vi., 899
" " (?)	" " (?)	"	....	118-120	" "	"	"
" " (?)	" " (?)	"	....	118-120	....	A., 156, 213	
" " ....	" "	"	....	137	Heintz	A., 153, 334	
" " ....	" "	"	....	138	Fittica	B., 11, 1209	34, 981
" "	" =1.4	"	....	194	Fuchs	B., 2, 625	
" " ....	" "	"	....	194-195	Spica	A., 216, 152	38, 167
" " ....	" "	"	....	195	Ladenburg & Fitz	A., 141, 254	vi., 899
Methoxyphenylacetic acid	$C_6H_4.OMe.(CH_2.CO_2H)=1.4$	"	....	85-86	Cannizzaro	A., 117, 246	vi., 174
Hydroxybenzyl acetate	$C_6H_4.OH.(CH_2.OAc)=1.3$	"	295-302 p. d.	55	Velden	J. p. [2], 15, 169	32, 339
Cresoxyacetic acid	$C_6H_4.Me.(O.CH_2.CO_2H)=1.4$	"	....	135-136	Gabriel	B., 14, 923	
Acetoxymethoxybenzene	$C_6H_4.OMe.OAc=1.2$	"	235-240	Liquid	Tiemann & Koppe	B., 14, 2020	42, 55
" "	" =1.3	"	254-256	Liquid	Wallach & Wüsten	B., 16, 152	
Hydrocoumaric acid (melilotic)	$OH.(CH_2.CH_2.CO_2H)=1.2$	"	....	82	Zwenger	A., 126, 262; As., 5, 100, 121	vi., 715
" " "	" "	"	....	82-83	Tiemann & Herzfeld	B., 10, 286	31, 709
" "	" =1.3	"	....	111	Tiemann & Ludwig	B., 15, 2051	44, 189
" " ....	" "	"	....	?	Braunstein	I. D., Zurich, 1876	
" "	" =1.4	"	....	125	Hlasiwetz & Malin	A., 142, 358	vi., 716
" " ....	" "	"	....	125	Baumann	B., 12, 1452	
" " ....	" "	"	....	126-127	"	B., 13, 279	38, 649
" " ....	" "	"	....	125-126	E. & H. Salkowsky	B., 13, 191	
Phloretic acid ....	....	"	....	n. f. 128-130	Hölm & Reichardt	A., 157, 98	24, 149
" "	$C_8H_8(OH)(CO_2H)$	"	....	128-130	Hlasiwetz	Gm. 13, 308; A., 102, 145	iv., 489
Isophloretic acid	$OH.(C_2H_4.CO_2H)=1.2$	"	....	129	Rochleder	Z. C. [2], 4, 741	vi., 927
Dimethoxybenzaldehyde	$COH.(OMe)_2=1.3.4$	"	285 u. c.	15-20	Tiemann	B., 8, 1135	29, 76
" "	" "	"	283 u. c.	41	Beckett & Wright	....	29, 288
" "	" =1.2.5	"	270	51	Tiemann & Müller	B., 14, 1992	42, 53
" "	" =1.2.4	"	....	68-69	Tiemann & Parrisius	B., 13, 2370	40, 271
Ethoxyhydroxybenzaldehyde	$COH.OH.OEt=1.2.5$	"	230	51-5	Hantzsch	J. p. [2], 22, 463; B., 13, 2419	40, 166
Methyl hydroxytoluate	$Me.OH.CO_2Me=1.3.4$	"	236-237	....	Biedermann & Pike	B., 6, 324	26, 904; vii., 394
" "	" =1.3.5	"	....	92-93	Jacobsen	B., 14, 2359	42, 193
Methoxytoluic acid	$OMe.Me.CO_2H=1.4.6$	"	....	67	Schall	B., 12, 825	36, 794
" "	" =1.2.6	"	....	81	"	B., 12, 824	"
" "	" =1.3.6	"	....	103-104	"	B., 12, 825	"
" "	" =1.2.5	"	....	156	Gerichten & Rössler	B., 11, 1587	36, 323
" "	" =1.3.4	"	....	176	Schall	B., 12, 825	36, 794
" "	" =1.2.4	"	....	192-193	"	"	"
Ethylhydroxybenzoic acid	$C_6H_3.Et.OH.CO_2H=1.2.?$	"	....	112	Oliveri	G. I., 13, 263	46, 174
Ethylhydroxybenzoic acid or dimethylhydroxybenzoic acid	$C_6H_3.Et.OH.CO_2H=?$ or $C_6H_2.Me_2.OH.CO_2H$	"	....	127-128	Wright and Rennie	....	39, 239
Orcacetophenone	$C_6H_3.Me.OH.OAc$	"	....	146	Rasinsky	J. p. [2], 26, 60	42, 1289
Orcinyl acetate ....	....	"	284-286 (724)	....	"	J. p. [2], 26, 61	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Homomethoxysalicyl-aldehyde	COH.OH.OMe.Me = 1.2.3.5	$C_9H_{10}O_3$	270-275	Liquid	Tiemann & Koppe	B., 14, 2026	42, 55
Hydroxyxylic acid (para)	Me ₂ .OH.COOH = ?	"	....	137	Oliveri	G. I. [1882], 161	42, 838
" "	" = ?	"	....	155	Wroblewsky	Z. C. [2], 4, 252	vi., 1129
" "	Me.Me.OH.COOH = 1.2.4.5	"	....	195	Reuter	B., 11, 29	34, 413
" "	" "	"	....	199	Jacobsen	B., 12, 434	36, 641
Hydroxymesitylenic acid	Me ₂ .OH.COOH = 1.3.4.5	"	....	176	Fittig & Hoogewerff	Z. C. [2], 5, 169	vi., 824
" "	" "	"	....	176	Fittig	A., 150, 333	36, 530
" "	" "	"	....	179	Jacobsen	B., 11, 2055; A., 195, 274	"
" "	" = 1.3.2.5	"	....	223	"	B., 12, 606	36, 643
Alorcinic acid	$C_6H_2.Me_2.OH.COOH + H_2O$	"	air dried over H_2SO_4	97; 115	Weselsky	A., 167, 65; B., 5, 168	26, 1039; vii., 53
Hyoscinic acid	$C_8H_9O.COOH$	"	....	104-105	Hölm & Reichardt	A., 157, 98	vi., 726; vii., 664; 24, 149
" "	id. Tropic acid, q. v.	"	....	116-117	Ladenburg	B., 13, 254	38, 674
Gallacetoin	....	"	d. 250	....	....	J. p. [2], 26, 76	
Usnetic acid (Decarbusnic)	....	"	....	172	Hesse	B., 10, 1326	32, 896; 37, 407
Methylic dehydracetate	....	$C_9H_{10}O_4$	....	91	Oppenheim & Precht	B., 9, 324	30, 70
Phenylglyceric acid	$C_6H_5.CH(OH).CH(OH).COOH$	"	....	117	Anschütz and Kin-nicutt	B., 12, 539	36, 645
Atroglyceric acid	$CH_2OH.CPhOH.COOH$	"	....	146	Kast	A., 206, 29	40, 428
Methoxymandelic acid	$OMe.(CHOH.COOH) = 1.4$	"	....	93	Tiemann	B., 14, 1977	42, 57
Hydroxyphenyllactic acid	$OH.(CH_2.CHOH.COOH) = 1.4$	"	....	144	Erlenmeyer & Lipp	A., 219, 179	44, 993
" "	(?) $OH.(CHOH.CH_2.COOH) = 1.4$	"	....	162-164	....	Z. P. C., 6, 256	
Methylic vanillate	$OMe.OH.COOMe = 1.2.5$	"	285-287	62-63	Matsmoto	B., 11, 128	34, 501
" methoxysalicylate	" = 1.3.4	"	....	154	Tiemann and Parisius	B., 13, 2377	40, 271
Ethylic dihydroxybenzoate	$COOEt.OH.OH = 1.3.6$	"	....	75	Goldberg	J. p. [2], 19, 373	36, 929
" "	" = 1.3.6	"	....	78	Liechti	Z. C. [2], 6, 197	vi., 1005
" "	" = ?	"	....	b. 100	Barth and Senhofer	A., 159, 225	vii., 433
" (protocatechuate)	" = 1.3.4	"	....	133-134	Matsmoto	B., 11, 122	34, 501
" "	" "	"	....	133-134	Fittig & Macalpine	A., 168, 113	26, 1145
" "	" "	"	....	134 c.	....	A., 114, 295	
" "	" "	"	....	134 c.	Hesse	A., 122, 221	iii., 216
Dimethoxybenzoic acid	$COOH.(OMe)_2 = 1.2.5$	"	....	76	Tiemann & Muller	B., 14, 1993	42, 53
" "	" = 1.2.4	"	....	108	Pechmann and Dnisberg	B., 16, 2126	46, 67
" "	" "	"	....	108	Tiemann and Parisius	B., 13, 2378; B., 15, 2080	
" "	" = 1.3.5	"	....	175-176	Tiemann & Streng	B., 14, 2003	42, 52
" (veratric acid)	" = 1.3.4	"	....	170-171	Köelle	B., 4, 635; A., 159, 241	24, 829; vii., 432
" "	" "	"	....	171	Beckett & Wright	....	29, 289
" "	" "	"	....	172-173	" "	....	29, 304
" "	" "	"	....	174	Tiemann and Mendelsohn	B., 8, 1138	29, 75
" "	" "	"	....	174-175	Tiemann and Will	B., 14, 962	
" "	" "	"	....	174-175 n.c.	Tiemann and Matsmoto	B., 9, 938	
" "	" "	"	....	174-175	Matsmoto	B., 11, 124	34, 500
" "	" "	"	....	176-177	Wright and Luff	....	33, 161
" "	" "	"	....	176-178 c.	" "	....	33, 354
" "	" "	"	....	177-178	" "	....	33, 161
" "	" "	"	179.5	Körner	G. I., 6, 142	31, 89
" "	" "	"	179.5	Church	J. [1876], 601, 810	28, 117
" "	" "	"	179-180	Græbe & Borgmann	A., 158, 282	24, 705

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<i>α</i> -Homovanillic acid	(CH ₃ .COOH).OMe.OH = 1.3.4	C ₉ H ₁₀ O ₄	142-143	Tiemann and Nagai	B., 10, 204	32, 340
Dihydrohomoisophthalic acid	Me.H ₂ .(COOH) ₂ = 1.1.2.3.5	"	....	133	Böttlinger	B., 6, 895	26, 1222; vii., 1033
Everninic acid ....	....	"	....	147; 157	Stenhouse	A., 68, 86; 117, 299	ii., 612
Picrotoxin	C ₁₂ H ₁₄ O ₅ (?)	"	....	199-200	Paternò & Ogliarolo	G. I., 6, 531	31, 719
Atranorinic acid ....	....	"	....	100-101	Paternò	G. I. [1882], 231; B., 15, 2242	42, 1084
Ethyllic gallate	C ₆ H ₂ (OH) ₃ .COOEt = 1.2.3.5	"	....	141	Etti	B., 11, 1882	
" "	" "	C ₉ H ₁₀ O ₅	....	150	Ernst and Zwenger	A., 159, 28	vii., 538; 24, 821
" " + 2½ H ₂ O ....	" "	"	....	90	" "	"	24, 821
Diconic acid	C ₉ H ₇ O.OH.(COOH) ₂	C ₉ H ₁₀ O ₆	....	199-200	Hergt	J. p. [2], 8, 382	27, 457
? alcohol ....	....	C ₉ H ₁₂ O(?)	230-244	....	Laubenheimer	A., 164, 289	26, 65
Phenylpropyl alcohol	C ₆ H ₅ .CH ₂ .CH ₂ .CH ₂ .OH	"	235 u. c.	L - 18	Rügheimer	A., 172, 122	vii., 931; 27, 894
" "	"	"	234-235	....	Fittig & Rügheimer	B., 6, 215	26, 899
Ethylphenyl carbinol	C ₆ H ₅ .CH(OH).CH ₂ .CH ₃	"	213	....	Brühl	A., 200, 139	38, 296
" "	"	"	212	....	"	J. p. [2], 26, 110	
" "	"	"	210-211	....	Barry	B., 6, 1008	27, 75
" "	"	"	218	....	Wagner	B. S. [2], 36, 306	42, 377
Propyl phenyloxide	C ₆ H ₅ .O.Pr ^a	"	190-191	Liquid	Cahours	C. R., 77, 745; B. S., 21, 78	27, 38
Isopropylphenyl oxide	C ₆ H ₅ .O.Pr ^b	"	176	Liquid	Silva	B. S. [2], 13, 27	vi., 917
Benzylethyl oxide	C ₆ H ₅ .CH ₂ .O.Et	"	185	Liquid	Cannizzaro	Cimento, 3, 397	i., 579
Methoxyethyl benzene	C ₆ H ₄ Et.OMe = 1.2	"	185	Liquid	Oliveri	G. I., 13, 263	46, 174
" "	" "	"	190-192	Liquid	Ciamician	B., 12, 1658	38, 39
Ethoxytoluene	C ₆ H ₄ .Me.OEt = 1.2	"	180-181 u. c.	Liquid	Stædel	B., 14, 898; A., 217, 41	40, 723; 44, 585
" "	" = 1.3	"	188-191	Liquid	Engelhardt and Latschinoff	Z. C. [1869], 623	vi., 507
" "	" "	"	191-192	....	Oppenheim & Pfaff	B., 8, 888	
" "	" = 1.4	"	186-188	Liquid	Engelhardt and Latschinoff	Z. C. [1869], 619	vi., 506
" "	" "	"	186-188	....	Füchs	B., 2, 624	
Propylphenol	C ₆ H ₄ .Pr ^a .OH = 1.2	"	223-225	....	Frankland & Turner	....	43, 858
" "	" "	"	224.6-226.6 c. (758.5)	l. f. m.	Spica	G. I., 8, 406; B., 12, 295	38, 632; 43, 358
" "	" = 1.3	"	228 c.	26	Jacobsen	B., 11, 1062	34, 732
" "	" = 1.4	"	227-228	Liquid	Louis	B., 16, 109	
" "	" "	"	230	l. f. m.	Paternò and Spica	G. I., 7, 22	31, 708
" "	" "	"	230.6-232.6 c. (758.56)	l. f. m.	Spica	G. I., 8, 406; B., 12, 295	38, 632; 43, 358
Isopropylphenol	C ₆ H ₄ .Pr ^b .OH = 1.2	"	213-215	Liquid	"	G. I., 10, 246	38, 883
" "	" "	"	218.5 c. (756.18)	Liquid	"	G. I., 9, 433	38, 167
" "	" = 1.3	"	abt. 214 (753.3)	8-10	Fileti	G. I., 10, 279	38, 883
" "	" = 1.4	"	228.2-229.2 c. (758.18)	61	Spica	G. I., 6, 535; 8, 406	31, 593; 36, 632
" " ....	" "	"	....	61	"	G. I., 9, 433	38, 167
Methylxynol	Me.Me.OMe = 1.3.4	"	192	Liquid	Jacobsen	B., 11, 25	34, 412
" "	" = 1.4.5	"	194 c. (772)	Liquid	"	B., 11, 28	"
" "	" ?	"	200	....	Tiemann and Mendelsohn	B., 10, 61	
Mesityl alcohol	C ₆ H ₃ .Me ₂ .CH ₂ .OH = 1.3.5	"	218-221	Liquid	Wispek	B., 16, 1577	44, 1096
Methylethylphenol	C ₆ H ₃ .Me.Et.OH = 1.4.?	"	215	....	Mazzara	G. I., 10, 256	38, 882
Mesitol	Me ₃ .OH = 1.3.5.6	"	219.5 c. (763)	68	Jacobsen	A., 195, 269	36, 529
" "	" "	"	215-220	68-69	Biedermann and Ledoux	B., 8, 57	28, 569
" " ....	" "	"	....	68-69	" "	B., 8, 250	28, 761
Pseudocumenol	Me ₃ .OH = 1.2.4.5	"	240	69	Reuter	B., 11, 29	34, 413

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Heat on Ca-succinate	....	$C_8H_{12}O$	190-200	....	Funaro	G. I., 11, 274	40, 1032
α -Phenylmethylglycol	$Ph.CH(OH).CHMe(OH)$	$C_9H_{12}O_2$	....	52-53	Zincké	B., 17, 710	46, 1004
β- " "	" "	"	....	92-93	"	B., 17, 711	"
Dimethoxybenzylene	$C_6H_5.CH(OMe)_2$	"	208 c.	Liquid	Wicke	A., 102, 363	i., 577
Methoxyethoxybenzene	$OMe.OEt = 1.2$	"	213	Liquid	Tiemann & Koppe	B., 14, 2018	42, 54
Ethoxybenzyl alcohol	$OEt.(CH_2OH) = 1.2$	"	265	s. 0.	Bötsch	M. C., 2, 621	42, 174
Methoxybenzyl methyloxide	$OMe.CH_2OMe = 1.4$	"	225.5 (758)	Liquid	Cannizzaro	A., 137, 246	vi., 174
Propyldioxybenzene	$(OH)_2.Pr = 1.2?$	"	....	56	....	M. C., 4, 190	
Dimethoxytoluene	$Me(OMe)_2 = 1.3.5$	"	244	Liquid	Tiemann & Streng	B., 14, 2000	42, 51
"	" = 1.3.4	"	214-218	Liquid	Tiemann & Mendelsohn	B., 8, 1137	29, 74
"	" "	"	214-218	....	Tiemann & Koppe	B., 14, 2025	
"	" = ?	"	214-218	15	Nietzki	A., 215, 161; B., 11, 1278	34, 868; 44, 467
"	" = 1.1.2	"	218	....	Goldschmidt	M. C., 4, 704	46, 186
Mesitylenic glycol	$Me.(CH.OH)_2 = 1.3.5$	"	190 (20); 280 (750) p.d.	Liquid	Robinet and Colson	C. R., 96, 1863	44, 1095
Dihydroxytrimethylbenzene	$Me_3(OH)_2 = 1.3.5.2.4$	"	274.5-275.5 c.	149-150	Knecht	B., 15, 1377; A., 215, 100	42, 1200
?	....	"	....	148	Kachler	A., 169, 183	27, 155
Metacrolein	....	$C_9H_{12}O_3$	b. 132	45-46	Grimaux and Adam	B. S. [2], 36, 22; C. R., 92, 300	40, 406, 888
"	....	"	....	50	....	A., 112, 6	
Ethylic pyrotritartrate	$COOEt.CHAc.CH:C.CH_2$	"	205-208; 208-209	....	Harrow	A., 201, 147	33, 428, 430
Mesitylene glycerol	$C_6H_3.(CH_2.OH)_3 = 1.3.5$	"	....	Liquid	Colson	C. R., 97, 177	46, 56
Ethoxyhydroxybenzalcohol	$OH.OEt.CH_2OH = 1.4.(5 \text{ or } 6)$	"	....	83.5	Hantzsch	J. p. [2], 22, 473	40, 167
Dimethylhomo-pyrogallol	$C_6H_2.Me.(OMe)_2.OH$	"	265	36	Hofmann	B., 12, 1374	38, 249
Propyl pyrogallol	$C_6H_2.Pr.(OH)_3$	"	....	80	Pastrovich	M. C., 4, 184	44, 1005
"	"	"	....	79-80	Hofmann	B., 11, 332	34, 417
Ethylic succinopropionate	$CH_2.CO.(CH_2)_2.CO.CH.$ COOEt.	$C_9H_{12}O_4$	....	Liquid	Herrmann	A., 211, 320; B., 10, 109	42, 713
Dilactone	$(Me.C.COO.CH_2)C$	"	a. 360	105-106	Hjelt	B., 15, 626; A., 216, 67	42, 946
Diallylmalonic acid	$(CH_2:CH.CH_2)_2.C(COOH)_2$	"	....	134	Perkin	....	45, 539
"	"	"	....	133	Conrad and Bischoff	B., 13, 598	38, 628
Camphoronic acid + H_2O$	....	C_9H_{12}O_6$	....	110-115	Kachler	A., 159, 286; 162, 262	24, 1049; vii., 237
Butyrofuronic acid	$COOH.(CH_2)_2.CO(CH_2)_4.$ COOH	"	....	140-142	Toennies	B., 12, 1200	36, 916
Oxycamphoronic acid	....	$C_9H_{12}O_6$	....	210	Kachler	A., 159, 296; J., [1877], 640	24, 1050; vii., 238
Isooxycamphoronic acid	....	"	....	226	"	A., 191, 152	34, 513
Trimethyl aconitate	$C_3H_3.(COOMe)_3$	"	270-271	....	Hanaus	B., 9, 1750	31, 456
Diallylacetone	$CH_3.CO.CH(CH_2CH:CH_2)_2$	$C_9H_{14}O$	174-175	Liquid	Wolff	B., 10, 1957; A., 201, 48	34, 293
Phorone	....	"	195-196	28	Louise	C. R., 95, 602	44, 176
"	....	"	208	Liquid	Schwanert	A., 123, 298	vi., 390
"	$[Cet.(CH_2)_4.CH]:CO$	"	208	....	Kachler	A., 164, 79	vii., 238; 25, 1011
"	(l)	"	210-220	....	....	....	i., 29
"	....	"	218 c.	Liquid	Schulze	B., 15, 64	42, 613
"	....	"	209	....	Fittig	A., 110, 32	iii., 929
Isophorone	....	"	208-212	Liquid	Benedickt	A., 162, 303; A., 164, 79	26, 490; vii., 1107
Camphorone (phorone)	....	"	196	20	Baeyer	J., 18, 317	
" (camphrene)	$C_{18}H_{26}O_2(?)$	"	208	Liquid	Gerhardt	Co. C. [1849], 385	i., 733
Action of HCl on acetone	$Me_2C:CH.CMe:CH.CO.Me$ or $Me_2C:(CH_2)_2:C:(CH_2)_2:O$	"	235-238	....	Schwanert	A., 123, 298	vi., 390
"	"	"	196	....	Kachler	A., 164, 75	25, 1012
From camphic acid	....	"	230-235	Liquid	Montgolfier	C. R., 88, 915	36, 726

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diallylcarbinol acetate	(CH ₂ :CH.CH ₂) ₂ CH.OAc	C ₉ H ₁₄ O ₂	169·5 c.	....	Saytzeff	A., 185, 136	32, 297
KHO on allyl alcohol ....	....	" (?)	230-270	....	Tollens	Z. C. [2], 7, 249	25, 999
Guaiol ....	....	"	115-120	....	Völckel	J., 7, 611	
Capsaicin ....	....	"	....	59	....	J. [1878], 958	
Ethyl aceto-allylacetate	C ₃ H ₅ .CHAc.COEt	C ₉ H ₁₄ O ₃	213-214(720)	....	Perkin	....	45, 540
" "	"	"	206	....	Zeidler	A., 187, 33	32, 437
Ethyl trimethylene acetoacetate	CH ₂ .CH ₂ .CH ₂ .CAc.COEt	"	223-225	Liquid	Perkin	B., 16, 209	
Ethyl hydroxyheptate	C ₇ H ₉ O ₂ .OEt	"	129-130(100); 230-240 (760)	....	Demarçay	C. R., 86, 1135	34, 662
Diethyl trimethylene dicarboxylate	CH ₂ .CH ₂ .C(COOEt) ₂	C ₉ H ₁₄ O ₄	206-208 (720)	Liquid	Perkin	B., 17, 54	46, 832
Ethyl itaconate ....	....	"	225	Liquid	....	....	iii., 436
" " ....	....	"	230	....	....	J. [1873], 579	
" " ....	....	"	227-228	....	Petri	B., 14, 163	40, 1032
" " ....	....	"	228-229	....	Anschütz	B., 14, 2787	
" mesaconate	C ₃ H ₄ (COOEt) ₂	"	220	Liquid	Pebal	J., 4, 404; A., 78, 145	iii., 928
" " ....	....	"	223-223·5 = 229 c.	Liquid	Perkin	B., 14, 2543	39, 557
" " ....	....	"	229	Liquid	Petri	B., 14, 1634	39, 557; 40, 1032
" " ....	....	"	229	....	Anschütz	B., 14, 2785	
" citraconate ....	....	"	225	Liquid	....	....	i., 993
" " ....	....	"	226; 231·75 c.	Liquid	Perkin	B., 14, 2542	39, 557
" " ....	....	"	231	Liquid	Petri	B., 14, 1634	39, 557; 40, 1032
" " ....	....	"	231	....	Anschütz	B., 14, 2785	
" terebate	CMe ₂ .O.CO.CH ₂ .CH.COEt	"	273-276	....	Roser	B., 15, 293	
" acetomalonate	COOEt.CHAc.COEt	C ₉ H ₁₄ O ₅	238-240	Liquid	Ehrlich	B., 7, 892; B. S., 23, 73	29, 368
Glyceryl triacetate (triacetin)	CHOAc(CH ₂ OAc) ₂	C ₉ H ₁₄ O ₆	257-260	....	Schmidt	A., 200, 99	38, 312
" " "	"	"	258-260	....	Franchimont	B., 16, 394	
" " "	"	"	....	Liquid	Berthelot	A., 102, 340	i., 25
" " "	"	"	268	....	....	A. C. [3], 41, 282	
Hydro-oxy-camphoric acid	....	"	....	164·5	Kachler	A., 191, 149	34, 513
" " "	....	"	....	164·5	"	B., 7, 1730	28, 457
" " "	....	"	....	164-165	"	B., 13, 487	
" " "	....	"	....	148	Ballo	B., 12, 1597; 13, 332	
Camphoric acid + H ₂ O	....	"	....	110	Kachler	A., 159, 281	24, 1049
Ethyl carbodiglycollate	CO(OCH ₂ .COOEt) ₂	C ₉ H ₁₄ O ₇	abt. 280 p. d.	Liquid	Heintz	A., 154, 258	vii., 255
Trimethyl citrate	C ₃ H ₅ O.(COOMe) ₃	"	283-287	78·5-79	Hunnaus	B., 9, 1749	31, 456
Ethyl diallylcarbinol oxide	(CH ₂ :CH.CH ₂) ₂ .CHOEt	C ₉ H ₁₆ O	143-144 (759)	Liquid	Rjabinin	J. p. [2], 23, 272; B., 12, 2374	38, 372; 40, 404
Diallylethylcarbinol	C(C ₃ H ₅) ₂ .Et.OH	"	175-176 (743·5)	Liquid	Smirensky	J. p. [2], 25, 59	42, 488
Lycocresin ....	....	"	....	170 d.	....	A., 100, 303	
From Satureja Juliana	C ₃₄ H ₅₈ O ₄(?)	"	....	204-205	Spica	G. I., 9, 285	38, 128
Butyl angelate	C ₄ H ₇ .COOC ₄ H ₉	C ₉ H ₁₆ O ₂	177-178	....	Fittig	B., 10, 513	32, 429
Isobutyl angelate	C ₄ H ₇ .COO.CH ₂ .CHMe ₂	"	177-177·5	....	....	A., 195, 99	
Ethyl tetracrylate	C ₆ H ₁₁ .COOEt	"	189-191	....	Amthor	B., 14, 1718; A. P. [3], 18, 356	42, 46
Phoronic acid....	....	"	....	168-169	Montgolfier	A. C. [5], 14, 82	34, 898
Amylic acetoacetate	CH ₂ Ac.COOC ₅ H ₁₁	C ₉ H ₁₆ O ₃	abt. 223	....	Conrad	A., 186, 228	32, 435
Ethyl aceto-methylethylacetate	CAcMeEt.COEt	"	198	Liquid	Saur	B., 8, 1037	29, 370
" " "	"	"	198 u.c.	....	"	A., 187, 257	34, 27
" propylacetoacetate	CHAcPr ^α .COOEt	"	205-210	Liquid	Burton	A. C. J., 3, 385	42, 599
" " "	"	"	212 (750)	....	Chancel	C. R., 96, 1466	44, 915
" isopropylacetoacetate	CHAcPr ^β .COOEt	"	200-202	Liquid	Demarçay	C. R., 83, 449	30, 506

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl isopropylacetacetate	CHAcPr ^β COOEt	C ₉ H ₁₆ O ₃	201	....	Frankland & Duppa	A., 145, 80; J., 20, 395	vi., 591
„ α-ethyl-β-acetopropionate	CH ₂ Ac.CHEt.CO ₂ H	„	224-226	Liquid	Thorne	....	39, 341
„ mesitonate	CM ₆₂ :CH.CMe(OH).COOEt	„	210	Liquid	Pinner	B., 15, 579	42, 941
Valerylene diacetate....	C ₆ H ₁₀ (OAc) ₂	C ₉ H ₁₆ O ₄	abt. 205	Liquid	Reboul	C. R., 64, 284	vi., 1124
„ „	„	„	abt. 195	....	Kolbe and Guthrie	A., 109, 296	v., 974
Amylene „	„	„	a. 200	Liquid	Wurtz	A. C. [3], 55, 458	i., 208
Ethylene acetoisovalerate	CH ₂ (OAc).CH ₂ (O.C ₅ H ₉ O)	„	abt. 230	Liquid	Lourenço	A., 114, 125	ii., 568
Ethyl butyrolactate	C ₂ H ₄ O(C ₄ H ₇ O).COOEt	„	200-210	Liquid	Wurtz	C. R., 48, 1092	i., 697
„ „	„	„	208	....	„	J., 13, 273; A., 112, 235	
D'ethyl ethylmalonate	CH ₂ Et(COOEt) ₂	„	208-210	Liquid	Conrad	B., 12, 751	36, 707
„ „	„	„	199-201	Liquid	Markownikoff	A., 182, 334	31, 62
„ „	„	„	209.5-211.5 c.; 209.5-210.5 c.	....	Perkin	....	45, 512
„ „	„	„	207	....	....	A., 204, 135	
„ dimethylmalonate	CM ₆₂ (COOEt) ₂	„	196.2-196.7 c.	....	Perkin	....	45, 511
„ „	„	„	194-196	....	Conrad & Guthzeit	B., 14, 1644	
„ „	„	„	194.5	Liquid	Thorne	....	39, 544
„ methylsuccinate	COOEt.CHMe.CH ₂ .COOEt	„	217.5-218.5 c.	....	Perkin	....	45, 516
„ pyrotartrate	C ₃ H ₆ (COOEt) ₂	„	218 d.	Liquid	....	A., 25, 274	iv., 774
„ „	COOEt.(CH ₂) ₃ .COOEt	„	236-237	Liquid	Reboul	C. R., 82, 1502	30, 508
„ „	„	„	236.5-237 c.	Liquid	„	A. C. [5], 14, 501	36, 134
β-Hexylmalonic acid	C ₆ H ₁₃ .CH(COOH) ₂	„	....	84-86	Lundahl	B., 16, 789	
Azelaic acid	C ₇ H ₁₄ (COOH) ₂	„	....	106	Gantter and Hell	B., 14, 560	40, 578
„ „ ....	„	„	....	106	„	B., 14, 1545	40, 891
„ „ ....	„	„	....	106	Dale	17, 261	iii., 572
„ „ ....	„	„	....	106.5	Dale and Schorlemmer	A., 199, 144	35, 685
„ „ ....	„	„	....	106	Toennies	B., 12, 1200	33, 916
„ „ (anchoic) ....	„	„	....	115-124	Wirz	A., 104, 265	i., 290
„ „ (lepargylic) ....	„	„	....	114-116	Buckton	10, 166	iii., 572
„ „	COOH.(CH ₂) ₇ .COOH	„	....	117-118	Toennies	B., 12, 1202	36, 916
Diethyl hydroxypyrotartrate	C ₃ H ₅ (OH)(COOEt) ₂	C ₉ H ₁₆ O ₅	295-300 d.	....	Simpson	P. R. S., 13, 44; A., 133, 77	iv., 315
Ethyl quinate	C ₇ H ₁₁ EtO ₆	C ₉ H ₁₆ O ₆	240-250	Liquid	Hesse	A., 110, 340	v., 13
Isopropylallyl dimethyl carbinol	C ₄ H ₄ Me ₂ Pr ^β .OH	C ₉ H ₁₈ O	174-176	....	Dieff	J.p., 27, 364; B., 16, 960	44, 1076
Methylheptyl ketone	Me.CO.C ₇ H ₁₆	„	177	....	Lundahl	B., 16, 789	
Valerone	(C ₄ H ₉) ₂ .CO	„	b. 100	....	Löwig	P. A., 42, 412	25, 892
„ „	„	„	164-166	Liquid	Ebersbach	A., 106, 268	v., 981
„ „	„	„	181-182	....	Schmidt	B., 5, 600	25, 892
Methyl-dipropylmethyl ketone	Me.CO.CHPr ₂	„	173-174	Liquid	Burton	A. C. J., 3, 385, 395	42, 600
Propyldiethylmethyl ketone	C ₃ H ₇ .CO.CHEt ₂	„	180-190	....	Geuther, Frohlich, and Looss	A., 202, 311	38, 623
Dimethyl butyrene ....	....	„	192-195	....	Jahn	B., 13, 2116	
? ketone ....	....	„	160-170	....	....	J.p. [2], 23, 456	
? „ ....	....	„	180-190	....	Destrem	B., 16, 227	
? „ ....	....	C ₈ H ₁₈ O ₂	179	....	Geuther	J. Z. N., 7, 218	25, 607
Octyl formate	H.CO.O.(CH ₂) ₇ .CH ₃	„	195-197	....	Cahours & Demarcay	C. R., 191, 366	34, 653
Heptyl acetate	CH ₃ (CH ₂) ₆ .OAc	„	191.5 (758.5)	Liquid	Cross	A., 189, 4	32, 126
„ „	C ₇ H ₁₅ .OAc	„	181	....	Bouis and Carlet	A., 124, 352; C. R., 55, 140	26, 1081; iii., 143
„ „	„	„	181	....	Schorlemmer	P. R. S., 14	vi., 696
„ „	„	„	180	....	„	„	„
„ „	„	„	179-181	....	„	A., 136, 271	iii., 143; 16, 217

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts Dict. & J. Ch. Soc.
Heptylic acetate	$\text{CH}_3(\text{CH}_2)_5\text{CHMe}.\text{CH}_2.\text{OAc}$ $\text{CHMe}_2(\text{CH}_2)_3\text{CH}_2.\text{OAc}$	$\text{C}_9\text{H}_{18}\text{O}_2$	179	....	Schorlemmer	P. R. S., 14	vi., 696
" "	"	"	160-175	....	Grimshaw	....	26, 313
" "	$\text{CH}_3.\text{CH}(\text{OAc}).\text{CHMe}.\text{Pr}^\beta$ $\text{Et}.\text{CMe}_2.\text{CH}(\text{OAc}).\text{Me}$	"	160-185	....	Schorlemmer	26, 320	vii., 643
" "	$\text{CH}_3(\text{CH}_2)_4\text{CH}(\text{OAc}).\text{CH}_3$	"	169-171	....	"	P. T. [1878], 1 ; A., 188, 254	32, 866
" "	"	"	170-174	....	Morgan	....	28, 305
" "	$\text{CHMe}_2.\text{CH}_2.\text{CH}_2.\text{CH}(\text{OH}).\text{CH}_3$	"	166-168	Liquid	Rohn	A., 190, 312	34, 486
Amylic butyrate	$\text{CH}_3(\text{CH}_2)_2.\text{COO}.\text{C}_5\text{H}_{11}$	"	178.6	....	Elsasser	A., 218, 302	44, 967
" isobutyrate	$\text{CHMe}_2.\text{COO}.\text{C}_5\text{H}_{11}$	"	168.8	....	"	"	"
Isoamylic butyrate	$\text{CH}_3(\text{CH}_2)_2.\text{COO}(\text{CH}_2)_2\text{Pr}^\beta$	"	176	Liquid	Delffs	A., 92, 278	i., 695
" isobutyrate	$\text{CHMe}_2.\text{COO}(\text{CH}_2)_2.\text{CHMe}_2$	"	170.3	....	Pierre and Puchot	C. R., 76, 1332 ; A. C. [4], 22, 343	26, 1017 ; vii., 62
Isobutylic isovalerate	$\text{Pr}^\beta.\text{CH}_2.\text{COO}.\text{CH}_2\text{Pr}^\beta$	"	173.4 (760)	....	" "	C. R., 76, 1332 ; A. C. [4], 20, 234 ; 22, 330 ; A., 163, 285	26, 1017 ; vii., 62, 1200
" valerate	$\text{C}_4\text{H}_9.\text{COO}.\text{CH}_2\text{Pr}^\beta$	"	168.7	....	Elsasser	A., 218, 302	44, 967
Tertiary butylic (tertiary) valerate	$\text{CMe}_3.\text{COO}.\text{CMe}_3$	"	134-135	1.-20	Butlerow	B., 7, 728 ; A., 173, 372	27, 1084 ; 28, 250
Ethylc cenanthyate	$\text{CH}_3(\text{CH}_2)_5.\text{COOEt}$	"	189.3 (747.6)	Liquid	Lieben and Janecek	A., 187, 141	32, 881
" "	"	"	180-187	....	Grimshaw and Schorlemmer	A., 170, 137	
" "	"	"	187-188	1.-18	Grimshaw & Schorlemmer	26, 1077	vii., 870
" "	"	"	187-188 (763)	1.-20	" "	26, 1076	"
" "	"	"	187-188	....	Cahours and Demarçay	C. R., 89, 331	36, 1037
" "	"	"	186-188	1.-14	Mehlis	A., 185, 358	34, 135
" "	"	"	187-188 (761)	1.-18	Franchimont	B., 5, 786	26, 56, 1077
" "	"	"	187-188 c. ; 187.5-189.5 c.	....	Perkin	....	45, 502
" "	$\text{Me}_2.\text{CH}(\text{CH}_2)_3.\text{COOEt}$	"	182	Liquid	Poetsch	A., 218, 56	44, 730
" "	$\text{Me}(\text{CH}_2)_3.\text{CHMe}.\text{COOEt}$	"	172-173 (749.5)	....	Hecht	A., 209, 324	42, 41
Methylic caprylate	$\text{CH}_3(\text{CH}_2)_6.\text{COOMe}$	"	192-194	s. -48	Cahours and Demarçay	C. R., 89, 331	36, 1037
Nonylic acid (pelargonic)	$\text{CH}_3(\text{CH}_2)_7.\text{COOH}$	"	260	10	Cahours	J., 3, 401	iv., 370
" " "	"	"	248-250	7	Giesecke	Z. C. [2], 6, 429	vii., 897
" " "	"	"	253-254 (758.8)	10 ; 12-12.5	Franchimont and Zincké	B., 5, 19 ; A., 164, 333	vii., 898 ; 25, 301
" " "	"	"	186 (100)	12.5	Krafft	B., 15, 1692	42, 1272
" " "	"	"	247-250 u. c.	10.5	Perkin	....	45, 486
" " "	"	"	253	12	Jourdan	....	38, 314
" " "	"	"	255	18	Perrot	J., 10, 353	
" " " ....	"	"	....	11-12	Becker	B., 11, 1413	34, 853
" " "	$\text{CHMe}_2(\text{CH}_2)_3.\text{CHMe}.\text{COOH}$	"	244-246 c.	Liquid	Kullhem	A., 173, 319	vii., 898 ; 28, 354
" " "	$\text{C}_7\text{H}_{15}.\text{CH}_2.\text{COOH}$	"	232	Liquid	Venable	B., 13, 1652	40, 82
Dibutylic carbonate	$(\text{CH}_3.\text{CH}_2.\text{CH}_2.\text{CH}_2)_2\text{CO}_3$	$\text{C}_9\text{H}_{18}\text{O}_3$	207 c. (740)	....	Lieben and Rossi	A., 165, 112	26, 367 ; vii., 217
Diisobutylic carbonate	$(\text{CHMe}_2.\text{CH}_2)_2\text{CO}_3$	"	190.3 c.	....	Röse	A., 205, 232	40, 252
" "	"	"	190	Liquid	Humann and Clermont	A. C. [3], 44, 340 ; A., 93, 119	i., 801
" "	"	"	190	....	Wurtz	A., 165, 109 ; J., 7, 574	vii., 217 ; 26, 367
Isoamylic ethylglycollate	$\text{EtO}.\text{CH}_2.\text{COOC}_5\text{H}_{11}$	"	180-190	Liquid	Siemens	J. [1861], 452	ii., 917
Ethylc isoamylglycollate	$\text{C}_5\text{H}_{11}.\text{O}.\text{CH}_2.\text{COOEt}$	"	212	Liquid	"	J. [1861], 451	ii., 918

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diisopropyl lactate....	$\text{CH}_3\text{CH}(\text{OPr}_i)\text{COOPr}_i$	$\text{C}_9\text{H}_{18}\text{O}_3$	s. a. 168	....	Silva	B. S. [2], 17, 97	vii., 1016; 26, 367
Ethyl isomylhydroxalate....	$\text{C}_5\text{H}_{11}\text{CH}(\text{OH})\text{COOEt}$	"	203	Liquid	Frankland & Duppa	P. R. S.; J., 18, 382	iv., 276
Matezodambose (+)....	....	$\text{C}_9\text{H}_{18}\text{O}_9$	....	235	Girard	C. R., 77, 995	27, 169
Nonyl alcohol	....	$\text{C}_9\text{H}_{20}\text{O}$	205-212	....	....	Z. C. [1870], 404	
" "	$\text{C}_8\text{H}_{17}\text{CH}_2\text{OH}$	"	abt. 200	....	Pelouze & Cahours	J. [1863], 529	iv., 134
" "	....	"	186-189	....	Lemoine	B. S., 41, 161	46, 1107
Heptylethyl oxide	$\text{Et.O.C}_7\text{H}_{15}$	"	177	Liquid	Wills	16, 312	iii., 149
"	$\text{Et.O.}(\text{CH}_2)_6\text{CH}_3$	"	165 (748°3)	Liquid	Cross	A., 189, 5	32, 127
"	"	"	166-167 (755)	Liquid	"	"	32, 128
Isobutylisopropylethylene glycol	$\text{CHBu}^\beta(\text{OH}).\text{CHPr}^\beta(\text{OH})$	$\text{C}_9\text{H}_{20}\text{O}_2$	....	80-81	Fossek	M. C., 5, 119	46, 833
Amylidene diethoxide	$\text{C}_5\text{H}_{10}(\text{OEt})_2$	"	158-2	Liquid	Alsberg	J. [1864], 485	v., 974
Ethyl dipropyl orthoformate	$\text{CH}(\text{OPr})_2(\text{OEt})$	$\text{C}_9\text{H}_{20}\text{O}_3$	185-187	....	Pinner	B., 16, 1643	44, 1089
Ethoxypropionic acetal	$\text{EtO.C}_3\text{H}_5(\text{OEt})_2$	"	186	....	....	J. [1864], 495	
Triethyl glycerol (triethyline)	$\text{CH}(\text{OEt})(\text{CH}_2\text{OEt})_2$	"	185	Liquid	Reboul	A., 119, 238	
" " "	"	"	180-190	Liquid	"	A. C. [3], 60, 5; C. R., 52, 466	ii., 884
" " "	"	"	186	Liquid	Alsberg	J. [1865], 495; A., 131, 123	v., 880; vi., 638
Tetraethyl orthocarbonate	$\text{C}(\text{OEt})_4$	$\text{C}_9\text{H}_{20}\text{O}_4$	128	....	Ladenburg	A., 164, 300	26, 50
" "	"	"	158-159	....	Bassett	J., 17, 477	
Triethylpropyl phycite	$\text{C}_3\text{H}_4(\text{OH})(\text{OEt})_3$	"	192-8 (758)	....	Carius	A., 134, 71	v., 895
Triglycerol	$\text{C}_3\text{H}_5(\text{OH})[\text{O.C}_3\text{H}_5(\text{OH})_2]_2$	$\text{C}_9\text{H}_{20}\text{O}_7$	275-285 (10)	Liquid	Reboul & Lourenço	A. C. [3], 67, 299	ii., 894
Pyromellitic anhydride	$\text{C}_6\text{H}_2(\text{C}_2\text{O}_3)(\text{C}_2\text{O}_3) = 1.2.4.5$	$\text{C}_{10}\text{H}_2\text{O}_6$	....	286	Baeyer	As., 7, 37	vi., 812
Prehnitic anhydride	" = 1.2.3.5	"	....	239	"	A., 166, 328	vi., 811
Naphtholdiquinone	....	$\text{C}_{10}\text{H}_4\text{O}_4$	....	131	....	A. C. J., 2, 283	
Furil	....	$\text{C}_{10}\text{H}_6\text{O}$	....	162	E. Fischer	A., 211, 214	42, 500
β -Naphthaquinone	m. p. 96 is a misprint	$\text{C}_{10}\text{H}_6\text{O}_2$	....	d. 115-125	Stenhouse & Groves	A., 189, 202; B., 14, 1658	32, 53
β - " "	$\alpha_1\beta_1$;	"	d. 115-120	n. f. 110	Liebermann and Jacobsen	A., 211, 36, 49; B., 14, 1313	42, 521
β - " isomeric	....	"	....	113	Miller	B., 14, 1600	40, 1041
β- " "	....	"	....	119	"	"	"
β- " "	....	"	....	120	"	"	"
β- " "	....	"	....	124	"	"	"
α- " "	....	"	....	123-124	Monnet, Reverdin, and Nölting	B., 12, 2306	
α- " "	....	"	....	125	" "	"	
α- " "	....	"	....	abt. 125	Groves	A., 167, 357	vii., 836; 26, 210
α- " "	....	"	....	125	Claus and Ochler	B., 15, 312	42, 737
α- " "	....	"	....	125	Cleve	B. S. [2], 26, 241	31, 208
α- " "	....	"	....	125	Plimpton	....	37, 633
α - " "	$\alpha_1\alpha_2$;	"	....	125	Liebermann	A., 183, 242	31, 601
α- " "	....	"	....	125	"	B., 14, 1796	
α- " "	....	"	....	125	Liebermann and Dittler	B., 6, 950; 7, 246	27, 692; vii., 836
γ- " "	....	"	....	125	" "	B., 7, 246	" "
" " "	....	"	....	n. f. 140	Jacobsen	B., 14, 803	40, 736
" " "	....	"	a. 300	sb. 270	Pechmann	B., 15, 887	
Hydroxynaphthaquinone	$\text{C}_{10}\text{H}_6\text{OH}:\text{O}_2$	$\text{C}_{10}\text{H}_6\text{O}_3$	....	179	Diehl and Merz	B., 11, 1314	34, 888
"	"	"	....	187-189	Baltzer	B., 14, 1900	
"	"	"	....	190	Liebermann	"	
"	" = β_{aa}	"	....	190	Elsbach	B., 15, 688	
"	"	"	....	190	Zincké	B., 15, 483	42, 968
Naphthesic acid	....	$\text{C}_{10}\text{H}_6\text{O}_4$	....	b. 100	Laurent	....	iv., 17
Furil	$\text{C}_4\text{H}_3\text{O.C}_2\text{O}_2.\text{C}_4\text{H}_3\text{O}$	"	....	162	Fischer	B., 13, 1337	38, 798
Phthalyl acetic acid	$\text{C}_6\text{H}_4:(\text{CO})_2:\text{CH.COOH} = 1.2$	"	....	243-246 d.	Michael & Gabriel	B., 10, 392	32, 487

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Mellophanic acid	$C_6H_2(COOH)_4=1.2.3.4$	$C_{10}H_6O_8$	....	238	Baeyer	A., 166, 335	vi., 811
Prehnitic acid	" $=1.2.3.5$	"	....	237-250	"	A., 166, 328	"
Pyromellitic acid	" $=1.2.4.5$	"	....	264	"	A., 80, 281 ; As., 7, 37	vi., 812
α -Naphthol	$C_{10}H_7.OH=a$	$C_{10}H_8O$	....	91	Griess	19, 90	v., 1092
α- " ....	" "	"	....	92	Eller	G. J. C., 1869	"
α - "	" "	"	278-280	94	Schäfer	Z. C. [2], 5, 395 ; A., 152, 293	vi., 856
α- " ....	" "	"	....	94	Liebermann	A., 183, 225	31, 607
α- " ....	" "	"	....	94	Palm	B., 9, 499	30, 206
α- " ....	" "	"	....	94	Watson Smith	....	32, 563
α- " ....	" "	"	....	94	Neville & Winther	....	37, 632
α- " ....	" "	"	....	96	Maikopar	Z. C. [2], 5, 216	vi., 856
β - "	" $=\beta$	"	....	121-122	Gladstone & Tribe	....	39, 10
β - "	" "	"	285-290	122	Schäfer	A., 152, 293 ; Z. C. [2], 5, 395	vi., 856
β- " ....	" "	"	....	122	Calm	B., 15, 609	42, 972
β- " ....	" "	"	....	121	Walder	B., 15, 2169	"
β- " ....	" "	"	....	122	Liebermann	A., 183, 268	31, 607
β- " ....	" "	"	....	122	Palm	B., 9, 499	30, 206
β - "	" "	"	285-286	121	Ebert and Merz	B., 9, 611	"
β- " ....	" "	"	....	122	Watson Smith	....	32, 563
β- " ....	" "	"	....	122	Meldola	....	39, 41
β- " ....	" "	"	....	123	Maikopar	Z. C. [2], 5, 215	vi., 856
Decacrylic acid ....	....	$C_{10}H_8O_2$	....	86	Siewert	Z. C. [2], 4, 383	vi., 496
Propionic coumarin	$C_6H_4.O.CO.C_3H_4=1.2$	"	292.5	90	Perkin	J. [1875], 590	28, 12 ; 36, 439
Dihydroxynaphthalene (naphthaquinol)	$C_{10}H_6(OH)_2$	"	....	60 (?)	Liebermann	B., 14, 1313 ; A., 211, 58	"
γ- " "	"	....	....	b. 100	....	B. S., 24, 515	"
" "	"	"	....	158	Armstrong and Graham	....	39, 141
" "	"	"	....	173	Plimpton	....	37, 635
" "	"	"	....	abt. 176	Groves	26, 210	vii., 836
" "	"	"	....	176	Cleve	B. S. [2], 26, 241	31, 208
α- " "	"	"	....	184	Weber	B., 14, 2206	42, 205
α - " "	" $=a_1$; a_1 or a_1 ; a_2	"	s. b. 160-170	186	Ebert and Merz	B., 9, 609	30, 410
" "	" "	"	....	n. f. 230	Darmstadter and Wichelhaus	B., 2, 114	vi., 857
" "	$C_{10}H_6(OH)_2$ one or both (OH)-groups in β -position	"	d. b. 200	Melts when heated on Pt. foil	Griess	B., 13, 1959	39, 141
Benzoylacrylic acid	$BzCH:CH.CO.OH$	$C_{10}H_8O_3$	....	99 ; 96-97	Pechmann	B., 15, 885	42, 1074
" " $+xH_2O$....	"	"	....	64	"	"	"
Phenylsuccinic anhydride	$CO.CHPh.CH_2.CO.O$	"	....	45-50	Spiegel	B., 14, 873	"
Methoxyphenylpropionic acid	$C_8H_4.OMe.(C_2COOH)=1.2$	"	....	124-126 d.	Perkin	....	39, 424
Methoxycoumarin	$C_6H_3(OMe).CH:CH.CO.O$	"	....	103	Tiemann & Müller	B., 14, 1996	42, 53
	$=1.3.4$						
Methylumbelliferone	$C_9H_6.MeO_3$	"	....	114	Tiemann & Reimer	B., 12, 996	38, 721
β - "	$C_6H_3(OH).CMe:CH.CO.O$	"	....	185	Pechmann and Duisberg	B., 16, 2119	46, 66
Furoin....	$C_4H_3O.C_2H_2O_2.C_4H_3O$	$C_{10}H_8O_4$	....	135	Fischer	B., 13, 1335	38, 798
" ....	"	"	....	135	"	A., 211, 218	42, 499
Phenylfumaric acid	$COOH.CPh:CH.CO.OH$	"	....	161	Barisch	J. p. [2], 20, 186	38, 43
Benzalmalonic acid	$CHPh:C(COOH)_2$	"	....	195	Claisen and Crismer	A., 218, 129	46, 444
Cinnamo-carbonic acid	$COOH.(CH:CH.CO.OH)=1.2$	"	....	173-175	Gabriel & Michael	B., 10, 1551	34, 230
" "	" "	"	....	173-175	" "	B., 10, 2203	34, 426
Benzhydrylaceticarbonic anhydride	$O.CO.C_6H_4.CH.CH_2.CO.OH$	"	....	150	" "	B., 10, 2201	"
	$=1.2$						
" "	" "	"	....	150-151	" "	B., 10, 1558	34, 230

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict & J. Ch. Soc
Methylene caffeic acid	$\text{CH}_2:\text{O}_2:\text{C}_6\text{H}_3(\text{CH})_2\text{COOH}$	$\text{C}_{10}\text{H}_8\text{O}_4$	....	232	Lorenz	B., 13, 757	40, 49
Methoxyhydroxycoumarin (methylœsculetin)	....	"	....	184	Tiemann and Will	B., 15, 2075	44, 199
Dihydroxymethylcoumarin	$\text{C}_8\text{H}_2(\text{OH})_2\text{CMe}:\text{CH.COO}$	"	....	235	Pechmann and Duisberg	B., 16, 2119	46, 67
Tetrahydroxynaphthalene	$\text{C}_{10}\text{H}_4(\text{OH})_4$	"	....	225	....	A. C. J., 2, 283	
Furilic acid	$\text{C}(\text{OH})(\text{C}_4\text{H}_5\text{O})_2\text{COOH}$	$\text{C}_{10}\text{H}_8\text{O}_6$	d. 100	Solid	E. Fischer	A., 211, 222	42, 500
Phthalylacetic acid + H_2O	$(\text{COOH}).(\text{CO.CH}_2\text{COOH})$ =1.2	"	....	90 d.	Gabriel & Michael	B., 10, 1553	34, 229
Hemipinic anhydride	$\text{C}_6\text{H}_2(\text{OMe})_2:(\text{CO})_2:\text{O}$ =1.2.4 (3 or 5)	"	....	166-167 c.	Beckett & Wright	J. [1876], 807	29, 282
" " ....	" "	"	....	166-167	" "	"	29, 468
" " ....	" "	"	....	167	Prinz	J. p., 24, 371	42, 403
Dioxynaphthalic acid	$\text{C}_8\text{H}_4(\text{OH})_2(\text{COOH})_2$	$\text{C}_{10}\text{H}_8\text{O}_8$	....	126	Hermann	A., 151, 69	vi., 858
Prenomalic acid ....	....	$\text{C}_{10}\text{H}_8\text{O}_9$	....	210	Baeyer	B., 4, 275; A., 166, 327	vi., 811
From polyporic acid....	....	$(\text{C}_{10}\text{H}_9\text{O})_2$	....	156	Stahlschmidt	A., 195, 365	36, 382
Methylic polyporate....	....	$(\text{C}_{10}\text{H}_9\text{O}_2)_2$	....	187	"	A., 187, 177	32, 621
Acetocinnamone (benzyl- idene acetone)	$\text{C}_6\text{H}_5\text{CH}:\text{CH.CO.CH}_3$	$\text{C}_{10}\text{H}_{10}\text{O}$	240-241	Liquid	Engler and Leist	B., 6, 254	vii., 12; 26, 901
" "	"	"	260-262	41-42	Claisen & Claparède	B., 14, 2461	42, 511
From chloranethol ....	....	" (?)	240	....	Gladstone	23, 147	vii., 72
(?) ....	....	"	240-242	Liquid	Ladenburg	Z. C. [2], 5, 575	vi., 157
Benzylchloride on phenyl acetate	....	"	290-300	39	Perkin and Hodg- kinson	....	37, 722
Allylic benzoate	$\text{C}_6\text{H}_5\text{COO}(\text{C}_3\text{H}_5)$	$\text{C}_{10}\text{H}_{10}\text{O}_2$	228	Liquid	Hofmann & Cahours	A., 102, 297	
" "	"	"	230	....	Berthelot and De Luca	A. C. [3], 48, 286	
" "	"	"	242	....	Zinin	A., 96, 362	
Methylic cinnamate	$\text{C}_6\text{H}_5\text{CH}:\text{CH.COOMe}$	"	241	Liquid	Kopp	C. R., 21, 1376	1., 986
" "	"	"	241	Liquid	"	A., 60, 269	34, 981
" "	"	"	259.6	....	Weger	A., 221, 61	46, 11
" "	"	"	263	33.4	Anschütz and Kin- nicutt	B., 11, 1220	34, 981
Phenylcrotonic acid	$\text{C}_6\text{H}_5\text{CH}:\text{CH.CH}_2\text{COOH}$	"	....	78	Stuart	....	43, 404
" " ....	"	"	....	78	"	....	"
" "	"	"	288	....	"	A., 204, 189	
" " ....	"	"	....	82	Perkin	....	31, 392
Iso-phenylcrotonic acid	$\text{C}_6\text{H}_5\text{CH}:\text{CMe.COOH}$	"	302	86	Jayne	A., 216, 98	44, 472
" " ....	"	"	....	83-84	Perkin	....	31, 395
Phenylbutyro-lactone	$\text{Ph.CH}(\text{CH}_2)_2\text{COO}$	"	305-320	34-35	Pechmann	B., 15, 890	42, 1074
" "	"	"	306	37	Jayne	A., 216, 103	44, 472
Benzoyl propylaldehyde	$\text{CH}_2\text{Bz.CH}_2\text{CHO}$	"	235	Liquid	Burcker	C. R., 94, 220; B., 15, 731	42, 730
Benzoyl acetone	$\text{CH}_2\text{Bz.CO.CH}_3$	"	....	58	Fischer and Kuzel	B., 16, 2239	46, 59
Propenylbenzoic acid	$\text{C}_6\text{H}_4\text{C}_3\text{H}_5\text{COOH}=1.4$	"	....	160-161	Meyer and Rosicki	B., 11, 1792	36, 157
Isopropenylbenzoic acid ....	" = ?	"	....	255-260	" "	B., 11, 2173	36, 466
Hydrindonaphthalene car- boxylic acid	$\text{CH}_2\text{C}_8\text{H}_4\text{CH}_2\text{CH.COOH}$	"	....	130	Bayer and Perkin	B., 17, 132	46, 753
Safrol ....	....	"	....	8.5-10	Arzruni	N. R. P., 25, 615	32, 202
" ....	....	"	231-233	1. - 20	Grimaux & Ruotte	A., 152, 89	vi., 1014
From sassafras oil ....	....	$\text{C}_{10}\text{H}_{10}\text{O}_3$	235	....	St. Evre	A. C. [3], 12, 107	v., 199
Acetylcarbinol benzoate	$\text{Me.CO.CH}_2\text{OBz}$	"	189-190 (50- 60); 200- 201 (80- 90); 263- 264 (760)	23.5-24	Breuer and Zincké	B., 13, 639	38, 646
" " ....	"	"	....	25	Romburgh	R. T., 1, 53; B., 16, 419	44, 63
Benzoyl carbinol acetate	$\text{C}_6\text{H}_5\text{CO.CH}_2\text{OAc}$	"	....	40	Hunnius	B., 10, 2010	
" "	"	"	270	44	Græbe	B., 4, 35	24, 223

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Benzoyl carbinol acetate	$C_6H_5.CO.CH_2.OAc$	$C_{10}H_{10}O_3$	....	49	Hunæus & Zincké	B., 10, 1488	34, 224
" " " " ....	"	"	....	49-49.5	....	A., 216, 308	
Ethyl benzoyl formate	$Ph.CO.CO.OEt$	"	250-255	....	Claisen	B., 10, 844	32, 616
" " " "	"	"	256-257 (760)	....	"	B., 12, 629	36, 648
" " " "	"	"	257	....	Gabriel	B., 16, 517	44, 920
Benzoyl propionic acid	$Ph.CO.CH_2.CH_2.COOH$	"	....	115-116	Pechmann	B., 15, 889	
" " " " ....	"	"	....	116	Burcker	B. S. [2], 35, 17	40, 273
Phenylhydroxycrotonic acid	$Ph.CH:CH.CH(OH).COOH$	"	....	115	Matsmoto	B., 8, 1144	29, 80
Methyl acetylbenzoate	$C_6H_4.Ac.COOMe=1.4$	"	....	92	Meyer	B., 12, 1072	36, 795
Propiophenone carbonic acid	$C_6H_4.(CO.Et).COOH=1.2$	"	....	91-92	Gabriel & Michael	B., 11, 1014	34, 735
α -Methoxyphenyl acrylic acid (methylcoumaric)	$OMe.(CH:CH.COOH)=1.2$	"	....	88-89	Perkiu	....	31, 419
β- " " " " ....	"	"	....	178-179	"	....	39, 411
β- " " " " ....	"	"	....	182-183	"	....	31, 414
β- " " " " ....	"	"	....	182-183	"	....	31, 420
β- " " " " ....	"	"	....	183	"	....	31, 421
β- " " " " ....	"	"	....	183	"	....	31, 422
" " " "	" =1.3	"	....	115	Tiemann & Ludwig	B., 15, 2051	44, 189
" " " "	" =1.4	"	....	abt. 171	Perkin	....	31, 409
Allylsalicylic acid	$C_6H_4.OC_3H_5.COOH=1.2$	"	....	113	Scichilone	G. I., 12, 449; B., 16, 796	44, 336
" " " "	" =1.3	"	....	118	"	" "	"
" " " "	" =1.4	"	....	123	"	" "	"
Acetoxytoluic aldehyde	$COH.Me.OAc=1.3.2$	"	267	l. f. m.	Barbier	C. R., 90, 37; B. S., 33, 54	38, 318, 468
" " " "	" =1.3.4	"	275	Liquid	"	" "	"
" " " " ....	" = "	"	....	39-40	Staats	B., 13, 139	38, 385
" " " "	" =1.3.6	"	....	57	Schotten	B., 11, 786	34, 878
Cubebin ....	....	"	....	125	Weidel	W. A., 74, 377	34, 80
Curcumin ....	....	"	....	begins 165	Daube	N. R. P., 20, 36; B., 3, 609	24, 153; vii., 404
" " " "	see $C_{14}H_{14}O_4$	"	....	178	Jackson	B., 14, 485	40, 611
Benzolactic acid	$C_2H_4BzO.COOH$	$C_{10}H_{10}O_4$	....	112	Strecker	A., 80, 42; 91, 359	i., 561
Benzylmalonic acid	$Ph.CH_2.CH(COOH)_2$	"	....	117	Conrad	B., 12, 752; A., 204, 175	36, 707
Phenylsuccinic acid	$COOH.CHPh.CH_2.COOH$	"	....	159.5-162	Rügheimer	B., 14, 428	40, 600
" " " " ....	"	"	....	167	Spiegel	B., 14, 1693	40, 1037
" " " " ....	"	"	....	166-167; 166	"	B., 14, 873	
Diacetoxy benzene	$C_6H_4(OAc)_2=1.3$	"	278 u. c.	l. f. m.	Typke	B., 16, 551	44, 917
" " isomeric (?)	"	"	273 (708)	....	Neucki and Sieber	J. p. [2], 23, 149; A., 138, 78	
" " " "	"	"	303	72	" "	J. p. [2], 23, 147	40, 591
" " " "	" =1.4	"	....	121	Hesse	A., 200, 244	38, 317
" " " " ....	"	"	....	120	Nietzki	B., 11, 470	
" " " " ....	"	"	....	123-124	Rakowski	N. H. C., 2, 560; A., 209, 128	
Dimethyl phthalate	$C_6H_4.(COOMe)_2=1.2$	"	280 c. (734)	....	Græbe	B., 16, 861	
Dimethyl isophthalate	" =1.3	"	....	63-65	Bayer	A., 166, 340	26, 756
" " " " ....	"	"	....	64-65	Adorand V. Meyer	B., 4, 262	24, 367
" " " " ....	"	"	....	64-65	Meyer	A., 156 or 159	vii., 978
" terephthalate	" =1.4	"	....	a. 100	De La Rue and Müller	A., 121, 89	v., 727
" " " " ....	"	"	....	140	Beilstein	A., 132, 269	"
" " " " ....	"	"	....	140	Grimaux	A. C. [4], 26, 331	25, 817
Xylenedicarbonic acid	$C_6H_4.(CH_2.COOH)_2=1.2$	"	....	150	Bayer and Pape	B., 17, 447	46, 898
" " " "	" =1.4	"	....	236	Biedermann	B., 5, 703	
" " " " ....	"	"	....	244	Klippert	B., 9, 1766	31, 468
Hydrocinamocarbonic acid	$COOH.(CH_2.CH_2.COOH)=1.2$	"	....	165-166	Gabriel and Michael	B., 10, 2203	34, 427

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Acetoxymethoxybenzaldehyde	COH.OAc.OMe = 1.2.5	C ₁₀ H ₁₀ O ₄	....	63	Tiemann & Müller	B., 14, 1995	42, 53
"	" = 1.4.5	"	....	77	Tiemann and Nagai	B., 11, 647	34, 579
"	" = 1.4.6	"	....	86	Tiemann and Parrisius	B., 13, 2374	40, 271
Ferulic acid	(CH : CH.COOH).OMe.OH = 1.3.4	"	....	153-154	Hlasiwetz & Barth	A., 138, 64	34, 579 ; vi., 227, 616
" " ....	" "	"	....	168-169	Tiemann and Nagai	B., 9, 416 ; 11, 650	34, 579
" " ....	" "	"	....	168-169	" "	" "	"
Isoferulic acid (hesperetic)	" = 1.4.5	"	....	211-212	" "	B., 11, 654	34, 580
" "	" "	"	sb. 223 d.	225	E. Hoffmann	B., 9, 686	30, 421
" " ....	" "	"	....	228	Tiemann and Will	B., 14, 955	40, 740
Methylene hydrocaffeic acid	CH ₂ :O ₂ :C ₆ H ₃ .(CH ₂) ₂ .COOH = 4.3.1	"	....	84	Lorenz	B., 13, 758	40, 49
Cumidic acid (from Me ₄ = 1.2.4.5)	Me ₂ .(COOH) ₂ = ?	"	....	n. f. at a moderately high temp.	Jannasch	Z. C. [2], 6, 449	vi., 828
Isocumidic acid	" = 1.3.4.5	"	....	278-280	Jacobsen	B., 15, 1857	
Resacetophenone acetate ....	....	"	303	72	....	J. p. [2], 23, 147	
Meconin	C ₈ H ₂ (OMe) ₂ .CH ₂ .O.CO = 1.2.4. (3 or 5)	"	....	90	Couerbe	A., 5, 180	iii., 862
" ....	" "	"	....	98-99	Matthiessen and Forster	16, 349	iii., 862
" ....	" "	"	....	102-102.5	Beckett and Wright	B., 9, 73	29, 282
Benzylhydroxymalonic acid	Ph.CH ₂ C(OH)(COOH) ₂	C ₁₀ H ₁₀ O ₅	....	143 d.	Conrad	A., 209, 245 ; B., 13, 2159	40, 168
Acetoxymethoxybenzoic acid	COOH.OMe.OAc = 1.3.4	"	....	142	Tiemann and Nagai	B., 8, 1142	29, 78
" "	" "	"	....	142	Matsmoto	B., 11, 122	34, 501
" "	" = 1.4.5	"	....	206-207	"	B., 11, 130	"
Dimethylic hydroxyterephthalate	(COOMe) ₂ .OH = 1.4.5	"	....	94	Burkhardt	B., 10, 146	32, 337
" "	" "	"	....	96	Ost	J. p. [2], 15, 301	32, 486
Dimethylic hydroxyisophthalate	" = 1.3.4	"	....	96	Jacobsen	B., 11, 379	34, 583
" "	" = 1.3.5	"	....	159-160	Heine	B., 13, 496	38, 550
Ethoxyterephthalic acid	(COOH) ₂ .OEt = 1.4.5	"	....	252-253	Paternò and Canzoneri	G. I., 9, 455	38, 247
" "	" "	"	....	253-254	" "	" "	"
Dimethoxybenzoyl carbonic acid	(OMe) ₂ .(CO.COOH) = 1.2.4	"	....	138-139	Tiemann and Matsmoto	B., 11, 142	34, 503
Opianic acid	COOH.(OMe) ₂ .COH = 1.2.3.6	"	....	140	....	....	iv., 205
" " ....	" "	"	....	145	Richter	Tabellen	
" " ....	" "	"	....	150	"	....
Isopianic acid	" = 1.3.4.5	"	....	210-211	Tiemann and Mendelsohn	B., 10, 397	32, 487
Methylic aldehydovanillate	COOMe.OMe.OH.COH = 1.3.4.5	"	....	134-135	Tiemann and Mendelsohn	B., 10, 396	32, 487
Plumieric acid	C ₆ H ₂ .(CH ₂ OH)(C ₂ H ₂ .COOH)(OH) ₂	"	....	139	Oudemans	A., 181, 161	30, 422
Metacamphretic acid ....	....	"	....	89	Schwanert	A., 128, 77	iv., 757
Pyrocinchonic acid	C ₃ H ₈ .OH.(COOH) ₂	"	....	95	Weidel	A., 173, 76	28, 89
Larixinic acid ....	....	"	sb. 93	153	Stenhonse	P. T. [1863], 53 ; A., 123, 191	iii., 471
Atracic acid ....	....	"	....	140-141	Paternò	G. I. [1882], 231	42, 1084
Colein ....	....	"	....	n. f. 100	Church	....	31, 260
Ethylic acetylcomenate	C ₃ H ₂ O ₂ .OAc.COOEt	C ₁₀ H ₁₀ O ₆	....	104	Reibstein	J. p. [2], 24, 277	42, 197
Phenylene dioxyacetic acid....	C ₆ H ₄ (O.CH ₂ .COOH) ₂ = 1.3	"	....	193	Gabriel	B., 12, 1640	38, 33
Hemipinic acid	(COOH) ₂ .(OMe) ₂ = ?	"	....	165	Schmidt	B., 16, 2589	46, 340
" "	" = 1.2.3.4	"	....	180	....	....	iii., 142
" "	" "	"	....	180-181	Beckett & Wright	....	29, 469
" "	" "	"	....	180-181 d.	" "	....	29, 465

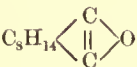
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hemipinic acid	(COOH) ₂ (OMe) ₂ = 1.2.3.4	C ₁₀ H ₁₀ O ₆	....	181-182 c.	Beckett & Wright	....	29, 282
" " ....	" "	"	....	182-183	" "	....	29, 468
Isohemipinic acid ....	" "	"	....	245-246	Tiemann and Mendelsohn	B., 10, 398	32, 488
Ethyl quinonehydrodicarboxylate	C ₆ H ₂ H ₂ :O ₂ .COOH.CO ₂ Et	"	....	184	Hermann	A., 211, 331	42, 714
Acid from gum ammoniac resin	....	"	....	265 d.	Goldschmidt	B., 11, 851	34, 738
Ethyl carbogallate	(OH) ₃ (COO.CO ₂ Et) = 1.2.4.5	C ₁₀ H ₁₀ O ₇ (?)	....	116.5 u. c.	Drechsel and Möller	J. p. [2], 17, 163	34, 784
Isohydropyromellitic acid ....	....	C ₁₀ H ₁₀ O ₈	....	220	....	As., 7, 26	
Decylaldehyde	CH ₃ (CH ₂) ₈ .CHO	C ₁₀ H ₁₂ O	106 (15)	....	Kraft	B., 16, 1714	44, 1075
Propylphenyl ketone	C ₆ H ₅ .CO.Pr ^a	"	218-221	Liquid	Popoff	B., 6, 560	26, 1037
" "	" "	"	220-222	1. — 20	Schmidt & Fieberg	B., 6, 498	27, 75
" "	" "	"	220-222	Liquid	Perkin	....	45, 181
Isopropylphenyl ketone	C ₆ H ₅ .CO.Pr ^b	"	209-217	....	Popoff	B., 6, 1255	
Benzylethyl ketone	C ₆ H ₅ .CH ₂ .CO.Et	"	225-226	....	"	B., 5, 501	25, 821
Methylphenethyl ketone	C ₆ H ₅ .CH ₂ .CH ₂ .COMe	"	225-230	....	Ceresole	B., 15, 1876	
" "	" "	"	233-234 (725)	....	Jackson	B., 14, 890	40, 742
" "	" "	"	235	....	Ehrlich	B., 7, 683	27, 885
" "	" "	"	235-236	....	"	A., 187, 15	32, 438
Phenylvinyl ethyl oxide	Ph.CH : CH.O.Et	"	217	Liquid	Erlenmeyer	B., 14, 1868	42, 191
Ethyl phenylacetylene alcohol	CHPh : C(OH)Et or CHEt : C(OH)Ph	"	224-226	Liquid	Morgan	J. [1876], 398	29, 163
Butenyl phenol	C ₆ H ₄ .OH.C ₄ H ₇ = 1.2	"	223-225	Liquid	Perkin	....	35, 143
" "	" = 1.4	"	230-235	s. f. m.	"	....	35, 145
Allyl methoxybenzene	C ₆ H ₄ (CH : CHMe.)OMe = 1.2	"	222-223	l. f. m.	"	B., 11, 515	33, 213
" "	" "	"	222-223	....	"	"	39, 435
" " (anethol)	" = 1.4	"	232	....	"	"	33, 215
" " "	" "	"	226-230	....	Landolph	C. R., 81, 97	29, 246
" " "	" "	"	232	....	Perkin	....	32, 673
" " "	" "	"	232	21	Kraut and Schlun	Z. C. P. [1863], 359	vi., 156
" " " ....	" "	"	....	21.3	Schiff	A., 223, 247 ; G. I., 14, 181	46, 1089
" " "	" "	"	230-240	Solid	Perkin	....	32, 669
" " "	Probably (C ₁₀ H ₁₂ O) ₂	"	228-230	Solid	Landolph	C. R., 82, 849	30, 79
Metanethol	(C ₁₀ H ₁₂ O) _n	"	232.5	....	Kraut and Schlun	Z. C. P. [1863], 359	vi., 156
" "	"	"	a. 300	132	Perrenoud	A., 187, 70	32, 480
Anisoin ....	"	"	....	140-145	Richter	Tabellen	
Cuminic aldehyde (cuminol)	C ₆ H ₄ .Pr.CO ₂ H = 1.4	"	217-222 c.	....	Lippmann & Strecker	W. A., 78, 570	38, 251
" " "	" "	"	222 c.	Liquid	" "	B., 12, 76	36, 464
" " "	" "	"	220	Liquid	Gerhardt & Cahours	A. C. [3], 1, 60	ii., 182
" " "	" "	"	223 u. c.	....	Etard	C. R., 90, 534	38, 468
" " "	" "	"	230	....	Raab	B., 8, 1148	29, 398
" " "	" "	"	236	....	Widmann	B., 15, 166	42, 727
" " "	" "	"	228 u. c. (704.5); 236.5 c. (760 r.)	....	Meyer	B., 10, 150	
" " "	" "	"	236.6 (748)	....	Kopp	A., 94, 316	ii., 182
Isocuminic aldehyde ...	....	"	abt. 220	80	Etard	A. C. [5], 22, 259	40, 582
Terecuminic aldehyde ....	....	"	219-220	....	"	"	"
" " ....	....	"	229	....	Kopp	"	"
Methylphenylcarbinol acetate	C ₆ H ₅ .CH(OAc).CH ₃	C ₁₀ H ₁₂ O ₂	213-216	....	Radziszewsky	B., 7, 141	27, 469
" " "	" "	"	217-220	....	....	Z. C. [1871], 132	
Benzyl carbinol acetate	C ₆ H ₅ .CH ₂ .CH ₂ .OAc	"	224	Liquid	Radziszewsky	B., 9, 373	30, 78
Benzyl propionate	CH ₃ .CH ₂ .COO.CH ₂ Ph	"	219-220	....	....	A., 193, 312	
Propyl benzoate	C ₆ H ₅ .COOPr ^a	"	229.47	....	Linnemann	A., 161, 28; 162, 39	vi., 203, 1013; 29, 235
" " "	" "	"	222.5	....	....	M. C., 2, 695	
Isopropyl benzoate	C ₆ H ₅ .COOPr ^b	"	218 (762)	Liquid	Silva	B. S., 12, 225 ; Z. C., 12, 637	vi., 966
Ethyl phenyl acetate	C ₆ H ₅ .CH ₂ .COOEt	"	226	Liquid	Radziszewsky	Z. C. [2], 5, 358 ; B., 2, 208	vi., 1101
" " "	" "	"	229 c.	Liquid	Hodgkinson	....	37, 481

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylic phenyl propionate	$C_6H_5.CH_2.CH_2.COOMe$	$C_{10}H_{12}O_2$	238-239	Liquid	Erlenmeyer	A., 137, 334; J., 19, 366	vi., 469
" " "	$C_6H_5.C_2H_4.COOMe$	"	236.6	....	Weger	A., 221, 61	46, 11
Methylbenzyl acetic acid	$C_6H_5.CH_2.CHMe.COOH$	"	275	34	Conrad	B., 11, 1055	34, 732
" " "	"	"	272	37	Conrad and Bischoff	B., 13, 595; A., 204, 181	38, 628
Phenylbutyric acid	$Ph.(CH_2)_3.COOH$	"	290	47.5	Jayne	A., 216, 107	44, 473
Xylylic acetate	$C_6H_4.Me.CH_2.OAc$	"	226	Liquid	Vollrath	A., 144, 262	v., 869
" " "	" =1.3	"	226	Liquid	Radziszewsky and Wispek	B., 15, 1747	
Ethylic toluate	$C_6H_4.Me.COOEt=1.2$	"	219.5 (713)	....	Ador and Rilliet	B., 12, 2301	
" " "	" =1.3	"	224.5-226.5 (710)	....	" "	"
" " "	" =1.4	"	228	Liquid	Noad	P. M. [3], 32, 25	v., 864
" " "	" "	"	228	....	Wurtz	B., 12, 2301	
Propylbenzoic acid (isocuminic)	$C_6H_4.Pr.COOH=?$	"	116-117	51	Etard	A. C. [5], 22, 218, 287	40, 582
Propylbenzoic acid (cuminic)	$C_6H_4.Pr^a.COOH=1.2$	"	....	58	Gabriel & Michael	B., 11, 1014	34, 735
" " "	$C_6H_4.Pr.COOH=?$	"	abt. 250	92	Gerhardt & Cahours	A. C. [3], 1, 70	ii., 178
" " "	$C_6H_4.Pr^b.COOH=1.4$	"	....	110	Meyer and Müller	B., 15, 496	44, 63
" " "	" "	"	....	114	Beilstein & Kupffer	B., 6, 1184	vii., 403
" " "	" "	"	....	114-115	Paternò and Spica	G. I., 7, 361	34, 296
" " "	" "	"	....	114-116	Meyer and Rosicki	B., 11, 1791	
" " "	" "	"	....	115	Gerhardt	....	vii., 403
" " "	" "	"	....	115	Nencki and Ziegler	B., 5, 751	26, 64
" " "	" "	"	....	115	Persoz	A., 44, 312	
" " "	" "	"	....	115	Meyer	B., 10, 153	
" " "	" "	"	....	116-117	Meyer and Müller	B., 15, 1903	44, 63
" " "	" "	"	....	116-117	" "	"	"
" " "	" "	"	....	116-117	Jacobsen	B., 12, 1516	38, 39
" " "	$C_6H_4.Pr^a.COOH=1.4$	"	....	137	Francksen	B., 17, 1220	46, 1009
" " "	" "	"	....	138-139	Paternò and Spica	B., 10, 1746	34, 139
" " "	" "	"	....	138-139	" "	G. I., 7, 361	34, 296
" " "	" "	"	....	140	Körner	B., 11, 1866; A., 216, 228	31, 142; 44, 322
" " "	" "	"	....	140	Meyer and Müller	B., 15, 698, 1905	
Terecuminic acid ....	....	"	....	128-129	Etard	A. C. [5], 22, 218	40, 582
Methylhydrocinnamic acid	$Me.(CH_2)_3.COOH=1.4$	"	....	103	Gerichten	B., 11, 1719	36, 230
Acetxylenol	$Me.Me.OAc=1.3.4$	"	226	Liquid	Jacobsen	B., 11, 25	34, 412
" " "	" =1.4.5	"	237 c. (768)	Liquid	"	B., 11, 28	"
Dimethylphenyl acetic acid	$Me_2.(CH_2).COOH=1.3.5$	"	273 (735)	100	Wispek	B., 16, 1577	44, 1096
" " "	" "	"	....	97	Robinet	B., 16, 965; C. R., 96, 500	
Eugenol (eugetic acid)	$(CH:CHMe).OMe.OH=1.4.3$	"	242	Liquid	Stenhouse	A., 95, 106	ii., 604
" " "	" "	"	243	....	Ettling	A., 10, —	
" " "	" "	"	243	....	Gladstone	....	25, 2
" " "	" "	"	244 u. c.	....	Church	B., 7, 1551	28, 113
" " "	" "	"	=251.8 c.	....		
" " "	" "	"	247.5 (760)	....	Wassermann	A., 179, 369	29, 706
" " "	" "	"	251 (760)	....	Williams	Chem. Gaz. [1858], 170	ii., 604
" " "	" "	"	251	....	Gladstone	17, 6	vi., 608
" " "	" "	"	252	....	"	"	"
" " "	$(CH_2.CH:CH_2)(OMe)(OH)$	"	247-249	....	Tiemann and Kraaz	B., 15, 2059	44, 201
Isoeugenol	$(CH:CHMe)(OMe)(OH)$	"	258-262	....	" "	B., 15, 2065	"
Eugenol (polymer)	$(C_{10}H_{12}O_2)_n$	"	....	a. 100	Erlenmeyer	B., 9, 273	
γ-Isoduric acid	$Me_3.COOH=1.2.4.6$	"	....	84-85	Jacobsen	B., 15, 1856	44, 53
β- " " "	" =1.3.5.6	"	....	120-123	Bielefeldt	A., 198, 387	38, 38
Duric acid	" =1.2.4.5	"	....	140-150	Jannasch	Z. C. [1870], 449	vi., 828
" " " ....	" "	"	....	149	Reuter	B., 11, 31	34, 413
" " " ....	" "	"	....	150	Gissmann	A., 216, 206	44, 334

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
β -Isoduric acid	$\text{Me}_3\text{COOH} = 1.3.5.6$	$\text{C}_{10}\text{H}_{12}\text{O}_2$	....	151	Jacobsen	B., 15, 1855	44, 53
" " "	" = 1.2.3.5	"	....	215	Bielefeldt	A., 198, 385	38, 38
" " " ....	" "	"	....	215-216	Jacobsen	B., 15, 1855	44, 53
Thymoquinone ....	....	"	....	45-46	Sigel	A., 170, 345	27, 378
" " "	$\text{Me.Pr}^a : \text{O}''_2 = 1.4.2.3$	"	abt. 200	45.5	Carstanjen	J. p. [2], 3, 53	24, 350
" " " ....	....	"	....	48	Lallemand	A., 101, 119	"
Poly-thymoquinone ....	....	$(\text{C}_{10}\text{H}_{12}\text{O}_2)_n$	....	200-201	Liebermann	B., 10, 2177	34, 418
Benzylideneglycerol	$\text{C}_3\text{H}_5(\text{OH}) : \text{O}_2 : \text{CHPh}$	$\text{C}_{10}\text{H}_{12}\text{O}_3$	190-200 (20)	....	Harnitzky and Menschutkin	B. S. [2], 3, 253; A., 136, 127	vi., 637
Ethyl phenoxyacetate	$\text{CH}_2(\text{OPh}).\text{COOEt}$	"	251	....	Fitzsche	J. p. [2], 20, 276	38, 319
Methyl methylmandelate	$\text{Ph.CH}(\text{OMe}).\text{COOMe}$	"	246	....	Meyer and Boner	B., 14, 2393	42, 195
Ethyl mandelate	$\text{Ph.CH}(\text{OH}).\text{COOEt}$	"	253-255	Liquid	Beyer	J. p. [2], 28, 190	46, 65
" " " ....	"	"	....	75	Naquet and Longuinine	A., 139, 300	"
Phenylhydroxybutyric acid	$\text{Ph.CH}(\text{OH}).(\text{CH}_2)_2.\text{COOH}$	"	....	30	Pechmann	B., 15, 881	42, 1074
" " " (cf. B., 15, 890)	$\text{Ph.CH}(\text{OH}).\text{C}_2\text{H}_4.\text{COOH}$	"	235	30-31	Burcker	B. S. [2], 375; B., 15, 360	42, 618
" " " " "	$\text{Ph.CH}(\text{OH}).(\text{CH}_2)_2.\text{COOH}$	"	....	75	Jayne	A., 216, 105	44, 473
Benzylmethylglycollic acid	$\text{Ph.CH}_2.\text{CMe}(\text{OH}).\text{COOH}$	"	....	97-99	Gabriel and Michael	B., 12, 815	38, 795
Propyl hydroxybenzoate (salicylate)	$\text{C}_6\text{H}_4.\text{OH}.\text{COOPr}^s = 1.2$	"	238-240	....	Cahours	C. R., 77, 745; J. [1874], 333	27, 38
Ethyl methoxybenzoate	$\text{C}_6\text{H}_4.\text{OMe}.\text{COOEt} = 1.2$	"	262	....	"	C. R., 39, 256	v., 162
" " " " "	" "	"	260 c.	....	Gräbe	A., 139, 141	vi., 1005
" " " " "	" "	"	246-248 (732)	....	Schreiner	A., 197, 18	"
" " " " "	" "	"	235	....	Fölsing	B., 17, 486	46, 897
" " (anisate)	" = 1.4	"	250-255	Liquid	Cahours	A. C. [3], 14, 492	i., 301
Methyl ethoxybenzoate	$\text{C}_6\text{H}_4.\text{OEt}.\text{COOMe} = 1.2$	"	265	....	Kraut, Schröder, & Prinzhorn	A., 150, 1	vi., 1006
" " " " "	" "	"	256-257 (732)	....	Schreiner	A., 197, 18	"
" " " " "	" "	"	245	....	Fölsing	B., 17, 486	46, 897
Isopropoxybenzoic acid	$\text{C}_6\text{H}_4.\text{OPr}^s.\text{COOH} = 1.2$	"	....	1. -20	Kraut, Schröder, & Prinzhorn	A., 150, 1	vi., 1006
Ethyl tolylic carbonate	$\text{C}_6\text{H}_4\text{Me}.\text{(OCOEt)} = 1.2$	"	235-237	Liquid	Bender	B., 13, 699	40, 48
" " " " "	" = 1.3	"	245	Liquid	"	B., 13, 700	"
" " " " "	" = 1.4	"	245-247	Liquid	"	"	"
Ethyl hydroxyphenylacetate	$\text{C}_6\text{H}_4.\text{OH}.\text{CH}_2.\text{COOEt} = ?$	"	251	....	Fritzsche	J. p. [2], 19, 33	38, 322
Hydroxypropylbenzoic acid	$\text{C}_6\text{H}_4.\text{COOH}.\text{C}_3\text{H}_6\text{OH} = 1.4$	"	....	155-156	Meyer	B., 11, 1285	34, 879
" " " " "	" "	"	....	155	Meyer and Rosicki	B., 11, 1792	"
" " " " "	" "	"	....	155	"	B., 11, 2172	"
" " " " "	" "	"	....	155	Meyer and Müller	B., 15, 699	"
Methoxyphenylpropionic acid	$\text{OMe}.\text{(CH}_2)_2.\text{CH}_2.\text{COOH} = 1.3$	"	....	51	Tiemann & Ludwig	B., 15, 2051	44, 189
" " " " "	" = 1.2	"	....	92	Perkin	....	39, 416
" " " " "	" = 1.4	"	....	101	"	J. [1877], 792	31, 411
" " (methylphloretic)	$\text{OMe}.\text{CHMe}.\text{COOH} = 1.4$	"	....	103.4	Körner & Corbetta	B., 7, 1732	28, 458
Ethoxyphenylacetic acid	$\text{OEt}.\text{(CH}_2)_2.\text{COOH} = 1.4$	"	....	88	Salkowski	B., 12, 1440	38, 252
Coniferyl alcohol	$(\text{CH} : \text{CH}.\text{CH}_2.\text{OH}).\text{OMe}.\text{OH}$ = 1.3.4	"	....	73-74	Tiemann and Haar- mann	B., 7, 612	27, 895
" " " " "	" "	"	....	74-75	Tiemann	B., 8, 1130	29, 77
Ethyl vanillin	$\text{COH}.\text{OMe}.\text{OEt} = 1.3.4$	"	....	64-65	"	B., 8, 1129	29, 76
" " " " "	" "	"	....	65	Miller	A., 188, 184	34, 159
Methoxyacetoxyluene	$\text{Me}.\text{OMe}.\text{OAc} = 1.3.4$	"	245	....	Tiemann	B., 9, 418	"
" " " " "	" "	"	246-248	....	Tiemann and Mendelsohn	B., 10, 58	"
Methyl methoxytoluate	$\text{OMe}.\text{Me}.\text{COOMe} = 1.2.6$	"	....	Liquid	Schall	B., 12, 823	38, 792
" " " " "	" = 1.3.6	"	....	Liquid	"	"	"
" " " " "	" = 1.4.6	"	....	Liquid	"	"	"
" " " " "	" = 1.3.4	"	....	Liquid	"	B., 12, 824	"
" " " " "	" = 1.2.5	"	....	Solid	Gerichten & Rössler	B., 11, 1587	"
" " " " "	" = 1.2.4	"	....	67	Schall	B., 12, 824	36, 792
Ethyl hydroxytoluate	$\text{Me}.\text{OH}.\text{COOEt} = 1.2.4$	"	....	74-75	Gerichten & Rössler	B., 11, 1587	36, 323
Ethoxytoluic acid	$\text{COOH}.\text{Me}.\text{OEt} = 1.3.4$	"	....	198	Remsen & Kuhard	B., 15, 951	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethoxytoluic acid	COOH.Me.OEt = 1.4.6	C ₁₀ H ₁₂ O ₃	....	108-110	Paternò & Canzoneri	J. [1879], 519	
Propylhydroxybenzoic acid	COOH.OH.Pr ^a = 1.2.3	"	....	93-94	Spica	G. I., 8, 406; J. [1878], 585	36, 633
" "	" = 1.2.5	"	....	98	"	"	36, 632
" "	" ?	"	....	120	"	"	36, 633
" "	" = 1.3.6	"	....	120.5	Paternò & Mazzaro	G. I., 8, 389; J. [1878], 806	36, 642
" "	" = 1.3.4	"	....	138-140	Lipmann & Lange	B., 13, 1663	40, 276
" "	" "	"	....	141-143	Barth	B., 11, 1571	36, 158
" "	" ?	"	....	143	"	B., 11, 567	34, 574
Isopropylhydroxybenzoic acid	COOH.OH.Pr ^s = 1.2.4 (?)	"	....	88	Jacobsen	B., 12, 432	36, 624
" "	" "	"	....	93	"	B., 11, 1061	"
" "	" "	"	....	93	"	B., 11, 573	34, 584, 732
" "	" = 1.3.4	"	....	166-170	"	B., 12, 433	36, 625
Methylic hydroxymesitylenate	COOMe.OH.Me ₂ = 1.2.3.5	"	....	Liquid	"	A., 195, 265	36, 530
" "	" = 1.4.3.5	"	....	130	"	B., 12, 608	36, 643
Ethylmethylhydroxybenzoic acid	COOH.OH.Me.Et = 1.2.3.5	"	....	147-149	"	A., 195, 284	36, 531
Hydroxythymoquinone	Me.Pr ^a .OH : O ₂ = 1.4.2.5.6	"	....	165	Zincké	B., 14, 97	
" "	" "	"	....	165-166	Carstanjen	J. p. [2], 15, 400	
" "	" "	"	....	166-167	Schulz	B., 16, 901	
" "	" = 1.4.(?) ₃	"	....	169	Ladenburg	B., 10, 611	32, 477
" "	" "	"	....	169-172	Ladenburg and Engelbrecht	B., 10, 1219	
" "	" = ?	"	....	169-175	Carstanjen	J. p. [2], 15, 400	32, 614
" "	" = 1.4.(?) ₃	"	....	173-174	Ladenburg	B., 10, 49	32, 891
" "	" "	"	....	174-175	Zincké	B., 14, 97	40, 596
" "	" = 1.4.2.3.6	"	....	183-185	Liebermann	B., 10, 79	
" "	" = 1.4.(?) ₃	"	....	187	Ladenburg	B., 10, 611	32, 477
" "	" = 1.4.6.2.3	"	....	187 uncor.	Carstanjen	J. p. [2], 3, 50	24, 352; vii., 1156
" "	" = 1.4.(?) ₃	"	....	183-221	"	J. p. [2], 15, 400	32, 614
Methylatrolactic acid	"	"	....	Crystalline	Böttiger	B., 14, 1598	40, 1036
Nonodilactone	(CHMe< ^{CH} ₂ >C ₂) ₂	C ₁₀ H ₁₂ O ₄	a. 360 s. d.	105	Hjelt	A., 216, 52	44, 456
Ethylac dehydracetate	CH ₃ Ac.C:CH.C(COOH):COH	"	....	91.6	Oppenheim & Precht	B., 9, 1100	
Glycerol monobenzoate	C ₃ H ₅ .(OH) ₂ (OBz)	"	320	nearly s. 40	Berthelot	A. C. [3], 41, 290	i., 559
Isobenzoglycol diacetate	C ₆ H ₅ (OAc) ₂	"	abt. 300	121	Renard	C. R., 91, 175	38, 802
Ethyl vanillate	COOEt.OH.OMe = 1.4.3	"	291-293	44	Tiemann and Mendelsohn	B., 10, 59	32, 889
Methylic dimethoxybenzoate	COOMe.(OMe) ₂ = 1.3.4	"	....	58	Körner	G. I., 6, 142; J. [1876], 601	31, 89
" "	" "	"	300	59-60	Matsmoto	B., 11, 127	34, 501
" "	" = 1.2.3	"	....	164-165	Wegscheider	M. C., 3, 348	42, 1207
Ethoxymethoxybenzoic acid	COOH.OMe.OEt = 1.3.4	"	....	190	Wassermann	A., 179, 379	29, 707
" "	" "	"	....	193-194	Tiemann	B., 8, 1130	29, 76
" "	" "	"	....	195	....	A. C. J., 4, 77	
α-Homoveratric acid....	(CH ₂ .COOH).(OMe) ₂ = 1.3.4	"	+xH ₂ O	98-99	Tiemann & Matsmoto	B., 11, 143	34, 503
Hydroferulic acid	(C ₂ H ₄ .COOH).OMe.OH	"	....	89-90	Tiemann and Nagai	B., 11, 650	34, 580
" "	" = 1.3.4	"	....			
Hydroisoferulic acid....	" = 1.4.3	"	....	146	"	B., 11, 656	"
" "	" "	"	....	147	Tiemann and Will	B., 14, 965	
Hydroxypropyl hydroxybenzoic acid	COOH.(CMe ₂ OH).OH = 1.4.5	"	....	173	Widmann	B., 17, 722	46, 1022
Ethyl dihydroxytoluic acid	COOH.(OH) ₂ .Me = 1.2 (?) ₂	"	....	97-98	....	M. C., 2, 463	
" " " (orsellinate)	" = (?)	"	....	104.5	Kane	P. T., 1840	iv., 236
" "	" "	"	....	a. 120	Heeren	Schw. J., 59, 341	"
" "	" "	"	....	a. 127.5	Hesse	A., 117, 314	"
" "	" "	"	....	132	Richter	Tabellen	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dihydroxythymoquinone	Me.Pr ^α .(OH) ₂ :O ₂ =1.4 (?) ₄	C ₁₀ H ₁₂ O ₄	....	213	Zincké	B., 14, 95	40, 596
" .....	" .....	" .....	....	220	Ladenburg and Engelbrecht	B., 10, 1223	34, 60
Cantharidin ....	....	" .....	d. 210	218 c.	Piccard	B., 10, 1504	34, 233
" .....	....	" .....	....	250	Text books	"	"
Cantharic acid	C ₆ H ₄ .H ₄ .CH ₂ .O.CO.CH. COOH	" .....	....	278 c.	Piccard	B., 10, 1505; 11, 2120	"
Xanthoxylin ....	....	" .....	....	80	....	A., 80, 251; 104, 238	"
Ethylc dehydromucate	C ₄ H ₂ O.(COOEt) ₂	C ₁₀ H ₁₂ O ₅	....	46-47	Fittig	B., 9, 1198	31, 65
" .....	" .....	" .....	....	47	Heinzelmann	A., 193, 190	36, 141
" carbopyrotritartrate	COOEt.CH ^α .CH — C:CH ₂ CO — O	" .....	....	80-81; 81-82	Harrow	A., 201, 152	33, 433
Ethylc succinylsuccinate	CH ₂ .CO.CH.CO ^α Et CH ₂ .CO.CH.CO ^α H	C ₁₀ H ₁₂ O ₆	....	98	Hermann	A., 211, 319; B., 10, 109	32, 319
" .....	" .....	" .....	....	100	Duisberg	B., 16, 135	"
Oil from nutmeg ...	....	(C ₁₀ H ₁₃ O ₂) _n	260-280	Liquid	Wright	B., 6, 147	vii., 862; 26, 549
" .....	....	" .....	280-290	Liquid	"	"	"
Disacryl resin ....	....	(C ₁₀ H ₁₃ O ₂) _n	....	100	Redtenbacher	A., 47, 114	ii., 337
Isobutylphenyl oxide	C ₆ H ₅ .O.CH ₂ .CHMe ₂	C ₁₀ H ₁₄ O	198	....	Riess	Z. C. [2], 7, 39; B., 3, 780	24, 221
Methylphenylcarbinol ethyl oxide	C ₇ H ₆ Me.OEt	"	185-187	....	Thorpe	Z. C. [1871], 131	22, 412
Dimethylbenzyl carbinol	(C ₆ H ₅ .CH ₂)Me ₂ C.OH	"	220-230	20-22	Popoff	B., 8, 768	29, 695
Propylphenyl carbinol	C ₆ H ₅ .CH(OH).Pr ^α	" .....	?	....	....	....	vii., 931
Methylphenethyl carbinol	Ph.(CH ₂) ₂ .CH(OH).Me	" .....	....	68	Engler and Leist	B., 6, 255	"
Ethyl phlorol....	C ₈ H ₉ EtO	"	215-217	....	Sigel	A., 170, 345	27, 378
Ethoxyethyl benzene	C ₆ H ₅ .Et.OEt	" .....	....	Liquid	Auer	B., 17, 669	46, 1002
Propyl methoxybenzene	C ₆ H ₅ .Pr ^α .OMe = 1.2	"	207-209 c. (757.7)	....	Spica	G. I., 8, 406; B., 12, 295	36, 632
"	"	"	214-215.5 c. (750.18)	Liquid	"	"	"
"	"	"	210-215	....	Paternò and Spica	G. I., 7, 21	31, 708
"	C ₆ H ₄ .Pr.OMe = 1.3	"	198-199 (751)	....	Fileti	G. I., 10, 279	38, 883
"	C ₆ H ₄ .Pr ^β .OMe = 1.4	"	212-213 c. (758)	....	Paternò and Spica	G. I., 6, 535	31, 593
Anetholdihydride ....	....	" .....	220	....	Landolph	B., 13, 145	38, 385
Ethyl xylyl oxide	C ₆ H ₄ Me.(CH ₂ .OEt) = 1.3	"	202	Liquid	Radziszewski and Wispek	B., 15, 1746	42, 1283
"	"	"	203	Liquid	"	B., 15, 1745	"
Isobutyl phenol	C ₆ H ₄ .OH.(CH ₂ .CHMe ₂) = 1.?	"	236-238	97.5-98	Liebermann	B., 14, 1843	42, 171
"	"	"	231	99	Studer	B., 14, 1474	40, 898
Cymylic alcohol	C ₆ H ₄ .Pr.CH ₂ OH = 1.4	"	243	Liquid	Kraut	A., 92, 66	ii., 298; vii., 931
"	"	"	238-240	....	Meyer	G. J. C., 1877	"
"	"	"	246.6 c. (760)	....	Kraut	A., 192, 224	"
Dihydrocumin aldehyde ....	....	(?)	190	....	Etard	A. C. [5], 22, 218	40, 583
Ethoxyxylene	Me.Me.OEt = 1.4.5	"	194	....	Canzoneri	G. I., 10, 516	40, 269
Isopropyl cresol	Pr ^β .Me.OH = 1.3.?	"	231	1.-25	Kelbe	A., 210, 40	42, 300
"	"	"	227.5-229.5 (758)	Liquid	Spica	G. I., 12, 543; B., 16, 792	44, 460
"	"	"	225-230	....	Mazzara	G. I. [1882], 167	42, 838
"	"	"	237.7 (758)	l. f. m.	"	G. I., 12, 505; B., 16, 793	44, 463
Propyl cresol	Pr ^α .Me.OH = 1.1.3	"	230-235 (734)	Liquid	"	G. I. [1882], 333	42, 1199
"	"	"	230-235	....	" .....	G. I. [1882], 167	42, 838
" (carvacrol)	"	"	232	Liquid	....	....	i., 809
"	"	"	231-232	1.-25	Kekulé & Fleischer	B., 6, 935	26, 1228; vii., 421

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Propyl cresol (carvacrol)	Pr ^a .Me.OH = 1.4.5	C ₁₀ H ₁₄ O	232-232.5 ; 236.5-237 c.	....	Kekulé & Fleischer	B., 6, 1088	vii., 935 ; 27, 65
" " "	" "	"	230	....	Kekulé	B., 2, 121	
" " "	" "	"	232	....	Haller	C. R., 94, 132	42, 737
" " "	" "	"	230-231	s.-20	Beyer	A. P. [3], 21, 283	48, 331
" " "	" "	"	233	....	....	....	vii., 930
" " "	" "	"	233-235	....	Spica	G. I., 10, 340	38, 889
" " "	" "	"	237	-3 to 0	Jacobsen	B., 11, 1060	34, 732
" " "	" "	"	232-233 u.c. ; 236-237 c.	+0.5 to 1	Jahns	B., 15, 817	
" " " ....	" "	"	....	1.5 to 2	"	A. P. [3], 15, 1	38, 112
" " (thymol)	" = 1.4.6	"	209	....	Gerichten	B., 11, 364	34, 570
" " "	" "	"	227.8 (756.7)	....	Paternò & Canzoneri	G. I., 9, 455	38, 247
" " "	" "	"	230	....	....	....	vii., 930
" " "	" "	"	232	....	Schiff	B., 13, 1407	38, 892
" " "	" "	"	233-235	Liquid	Febve	C. R., 92, 1292	42, 524
" " "	" "	"	235	....	Ramsay	....	39, 64
" " "	" "	"	233	....	Paternò and Spica	G. J. C., 1879	
" " "	" "	"	230	44	Lallemand	A., 102, 119	v., 793
" " "	" "	"	230	....	Doveri	A., 64, 374	
" " "	" "	"	222 ; 227	44	Stenhouse	J., 9, 624	v., 793
" " " ....	" "	"	....	44	Widmann	B., 15, 166	42, 728
" " " ....	" "	"	....	46	Kekulé & Fleischer	B., 6, 1087	27, 66
" " " ....	" "	"	....	48	Arppe	A., 58, 42	v., 793
" " " ....	" "	"	....	49.3	Schiff	G. I., 14, 181 ; A., 223, 247	46, 1089
" " " ....	" "	"	....	51	Andresen	J. p. [2], 23, 167	40, 590
" " "	" "	"	231	53	Haines	....	v., 793
" " "	" "	"	226	53	"	J., 9, 623	
" " "	" "	"	244.7	....	Pisati and Paternò	B., 8, 71	
" " (cymothymol)	"	"	245.8	....	" "	"
" " "	Pr.Me.OH = 1.4. ?	"	228-234	....	Paternò & Canzoneri	G. I., 11, 124	40, 595
" " "	" = ?	"	230	l. f. m.	....	....	vi., 303
" " "	" = ?	"	232-235	Liquid	Græbe	B., 5, 681	25, 1009
Methylmesitol	Me ₃ .OMe = 1.3.5.6	"	200-203	Liquid	Biedermann and Ledoux	B., 8, 60	28, 569
Isodurenil	Me ₄ .OH = 1.2.3.5.6	"	....	108	Jacobsen	B., 15, 1854	44, 52
Carvol ....	....	"	224.5-225	....	Kekulé & Fleischer	B., 6, 1088	27, 65
" " " ....	....	"	227	....	Gladstone	....	25, 9
" " " ....	....	"	225-230	....	Volckel	J., 6, 512	
" " " ....	....	"	228-229	....	Nietzki	A. P. [3], iv., 317	27, 892
" " " ....	....	"	226.5 (754)	....	Schiff	B., 14, 1376	
" " " ....	....	"	250	Liquid	....	J. [1863], 548	i., 808
Dehydrocamphor	C ₈ H ₁₄	"	....	160	Schiff	B., 14, 1376	42, 528
Stearoptene ....	....	"	....	48	Arppe	A., 58, 41	iii., 1046
Myristicol	C ₁₀ H ₁₆ O ?	"	212-218	....	Wright	26, 687	vii., 833
" " "	"	"	220 ; 224	....	Gladstone	25, 11	"
Oil from saffron ....	....	"	208-210	Liquid	Weiss	J. p., 101, 65	vi., 1001
" ? ....	....	"	216-218	Liquid	Faust and Homeyer	B., 7, 1430	28, 371
" ? phenol ....	....	"	233-235	....	....	C. R., 92, 1290	
Reduction of anethol ....	....	" (?)	220-224	....	Ladenburg	As., 8, 87	vii., 72
Triethenylbutyric acid	C ₃ H ₄ (C ₂ H ₃) ₃ .COOH	C ₁₀ H ₁₄ O ₂	240-260	....	Geuther, Fröhlich, and Looss	A., 202, 310	38, 623
Ethylene phenylethyl oxide	PhO.CH ₂ .CH ₂ .OEt	"	230	Liquid	Henry	C. R., 96, 1233	44, 803
Phenylbutylene glycol	CHPh(OH).C ₂ H ₄ .CH ₂ (OH)	"	200	Liquid	Burcker	C. R., 94, 220 ; B., 15, 731	42, 730
Diethoxybenzene	C ₆ H ₄ (OEt) ₂ = 1.3	"	250	Liquid	Barth and Senhofer	A., 164, 109	vii., 434 ; 25, 1016
" " "	" "	"	235-236	Liquid	Barth	B., 11, 1569	
" " "	" = 1.4	"	....	72	....	N. H. C., 2, 560	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diethoxybenzene	$C_6H_4(OEt)_2=1.4$	$C_{10}H_{14}O_2$	....	124	....	A., 215, 145	
Methoxypropoxybenzene	$C_6H_4.OMe.OPr=1.2$	"	240-245	Liquid	Cahours	C. R., 84, 1195	32, 478
Tolylene glycol monethylate	$(CH_2OEt)(CH_2OH)=1.4$	"	250-252	....	Grimaux	C. R., 73, 1383	25, 136
" " "	" "	"	252	Liquid	"	A. C. [4], 26, 331	25, 817
Isocuminic aldehyde....	$C_{10}H_{12}O+H_2O$	"	....	80	Etard	C. R., 87, 989	36, 321
Cœrulignol	$Pr.OMe.OH=? 1.2$	"	240-241	Liquid	Pastrovich	M. C., 4, 188	44, 1005
Trimethylorcin	$Me_3.(OMe)_2=? 1.3.5$	"	250	Liquid	Luynes and Lionet	C. R., 65, 213	vi., 885
Thymoquinol ...	$Me.Pr^2.(OH)_2=1.4.5.6$	"	....	139	Andresen	J. p. [2], 23, 178	40, 591
" ....	" "	"	....	139-140	Kekulé & Fleischer	B., 6, 1090	27, 66
"	" "	"	290	139.5	Carstanjen	J. p. [2], 3, 50	24, 351
" ....	" ?	"	....	145	Lallemand	A., 101, 121 ; 102, 121	"
Angelic anhydride	$(C_5H_7O)_2O$	$C_{10}H_{14}O_3$	240-250	l. f. m.	Chiozza	A. C. [3], 39, 210	i., 293
Ethylc diallyl oxalate	$(C_3H_5)_2C(OH).COOEt$	"	207-209	Liquid	Paternò and Spica	B., 9, 344	
Diethylpyrogallol	$C_6H_3.OH.(OEt)_2$	"	262	l. -10	Benedikt	B., 9, 126	29, 916
" ....	"	"	....	79	Hofmann	B., 11, 799	34, 870
Methyl propylpyrogallol (picamar)	$C_6H_2.Pr.(OH)_2.OMe$	"	290 c.	Liquid	Pastrovich	M. C., 4, 182	44, 1005
Camphoric anhydride	$C_8H_{14}.CO.O.CO$	"	....	213-215	Montgolfier	A. C. [5], 14, 86	34, 898
" " "	"	"	....	216-217	Anschütz	B., 10, 1881	34, 136
" " "	"	"	a. 270	217	Malaguti	A. C. [2], 64, 160	i., 731
" " "	"	"	....	217	Wreden	A., 163, 323	25, 896
" " "	"	"	....	217	Maissen	G. I., 10, 280	38, 893
" " "	$CH_2-CH_2.CH.CO$ $| \quad |$ $CHMe.CH_2.CMe.CO \rightarrow O$	"	....	223	Armstrong & Tilden	B., 12, 1756	35, 757
Pyrocampretic acid....	....	$C_{10}H_{14}O_4$	206-210	b. 0.	Schwanert	A., 128, 77	iv., 757
? " " "	....	"	....	129	Ballo	B., 14, 337	40, 415
Hydroxycamphoric anhydride	$C_8H_{13}(OH).CO.O.CO$	"	....	201	Wreden	Z. C. [2], 7, 97	24, 549
" " "	"	"	....	201	"	A., 163, 333	25, 896
" " "	"	"	....	201	Kachler	Z. C., 72, 264	vii., 236
Diacetyl mannitol anhydride	$C_6H_8O_4(OAc)_2$	$C_{10}H_{14}O_8$	197-198(28)	Liquid	Fauconnier	C. R., 95, 991 ; B., 15, 3086	44, 306
Dimethylc diacetyldextrotartrate	$COOMe.(CH.OAc)_2.COOMe$	"	....	103	Anschütz	B., 14, 2790	42, 831
" " "	"	"	....	103	Pictet	B., 2243	
Diethylc acetylene tetracarboxylate	$COOEt.(CH.COOH)_2.COEt.$	"	....	132-133 d.	Guthzeit	A., 214, 72	44, 46
Oxidation product from oil of fruit of Coriandum sativum	$C_8H_{13}.CO.Me$	$C_{10}H_{16}O$	185-186	l. -37	Grosser	B., 14, 2504	42, 525
Methylc camphoronate ....	....	"	225-230	....	....	A., 123, 311	
Camphor (from rosemary) ....	....	"	204	176	Bruylants	J. P. [4], 29, 508	36, 726
" ....	....	"	204	s. 175	Landolt	B., 9, 915	30, 373
" ....	....	"	....	174	Sigiura and Muir	....	33, 295
" (ordinary) ....	....	"	204	175	Biot	G. J. C., 1852	i., 727
" " ....	....	"	205	....	Lallemann	G. J. C., 1860	
" (from salviol) ....	....	"	....	174	Muir	....	37, 684
" (from sage) ....	....	"	205 u.c.	174 u.c.	"	....	37, 685
" (inactive) ....	....	"	....	172-173	Armstrong & Tilden	....	35, 752
" ....	....	"	....	162	Oppenheim	B., 5, 631	25, 1010; vii., 233
" (from Buchu leaves) ....	....	"	....	85	Flückiger	P. J. T. [3], iv., 689	27, 494
" (from cubebs) ....	....	"	150	68	Blanchet and Sell	A., 6, 294	ii., 172
" (inula) ....	....	" (?)	....	64	Kallen	B., 6, 1506	27, 353
" (rose)	Hydrocarbon $(C_2H_4)_n$ (?)	" (?)	280-300	35	....	....	v., 115
" " ....	....	"	....	33	Baur	D. P., 204, 253	25, 937
" ....	....	"	187-193	l. -17	Wreden	B., 11, 989	36, 69
" ....	....	"	225-250	....	Mylius	B., 6, 1053	27, 80
" ....	....	"	205	....	Bruhl	B., 9, 1375	31, 165
"	Vapour tension tables	"	v. Part iii.	....	....	....
Lævocamphor ....	....	"	....	175	....	B. S., 24, 19 ; A. C. [5], 14, 29	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Lævocamphor ....	....	$C_{10}H_{16}O$	200-220	....	....	....	i., 729
Anisic camphor (anethol tetrahydride)	....	"	190-193	Liquid	Landolph	C. R., 81, 97; B., 13, 145	29, 246; 38, 835
Xanthoxylin	See $C_{10}H_{12}O_4$	"	....	80	Stenhouse	P. J. T.	v., 1054
Ericinol ....	....	"	240-242	....	Frohde	J. F. P., 82, 186	ii., 500
Methyl camphrene	$C_9H_{13}MeO$	"	225-230	Liquid	Schwanert	A., 123, 298	iii., 1003; vi., 390
Myristicol	See $C_{10}H_{14}O$	"	265-285	....	Gladstone	....	26, 972
" ....	....	"	220	....	"	25, 11	vii., 833
" ....	....	"	212-218	....	"	....	26, 972
" ....	....	"	212-218	....	Wright	26, 550	vii., 833
" ....	....	"	212-218	....	"	B., 6, 147	26, 687
Absinthol (from oil of wormwood)	....	"	217	....	Gladstone	....	25, 8
" ....	....	"	204	....	Leblanc	Gm., 7	27, 324
" ....	....	"	200-201 c.	....	Wright	....	"
" ....	....	"	200-205	....	"	....	27, 1
" ....	....	"	195	....	Beilstein & Kupffer	B., 6, 1183	27, 153
Anethenol	$C_{10}H_{16}OH$	"	213.5-214.5	Liquid	Köbig	A., 195, 104	36, 455
Inulol ....	....	"	200	Liquid	Kallen	B., 9, 154	29, 917
Alban ....	....	"	....	140	....	J. [1852], 644	....
Hartin	See $(C_{10}H_{17}O)_n$	"	....	230 d.	....	B. J., 24, 588	....
Eucalyptol ....	....	"	216-218	Liquid	Faust and Homeyer	B., 7, 1430	....
" ....	....	"	175	....	....	A., 154, 372	....
Citronellol (Penang)....	....	"	200	....	Gladstone	....	25, 8
" (Ceylon) ....	....	"	200	....	"	....	"
Ursone	$(C_{20}H_{17}O_2)?$	" (?)	....	190-200	....	Z. C. [1866], 382	v., 970
Tanacetyl hydride (tansol) ....	....	"	195-196	....	Bruylants	B., 11, 451; J. Ph. [4], 26, 393	34, 158
Poley oil ....	....	"	182-185	....	....	Handw. d. Chem., 6, 615	iv., 685
Xyloretin ....	....	"	....	165	....	....	v., 1061
From oil of wormwood ....	....	"	200-201 c.	....	Wright	....	27, 318
" " ....	....	"	200-205	....	Leblanc	A., 56, 357	....
" citronella ....	....	"	199-205	....	Gladstone	10, 7	27, 319
Aldehyde, from oil of tansy	....	"	195	Liquid	Bruylants	B., 11, 449	34, 512
Oil from styrax	$C_{10}H_{18}O?$	"	170-180	s.—10	Van t'Hoff	B. S. [2], 25, 175	31, 478
Oil of mentha pulegium ....	....	"	182-185	....	....	A., 32, 286	....
Oil of pulegium micranthum	....	"	227	....	Butlerow	J., 7, 595	....
Blue chamomile oil ....	....	"	150-168	....	Kachler	B., 4, 37	24, 259; vii., 278
" " ....	....	$(\text{ " })_n$	281-289	....	"	B., 4, 36	24, 260; vii., 278
" " ....	....	"	270-300	....	"	"	vii., 278
Blue galbanum oil ....	....	"	289-290	....	Mössner	A., 119, 263	24, 260; ii., 758; vii., 278
" " " ....	....	"	281	....	Kachler	B., 4, 39	....
From oil of wormwood ....	....	$(C_{10}H_{16}O_n)_2$	270-300	....	....	A., 170, 292	....
Ethylic diallylacetate	$(CH_2:CH.CH_2)_2.CH.CO\bar{O}Et$	$C_{10}H_{16}O_2$	195	Liquid	Reboul	C. R., 84, 1233; B. S., 29, 228	32, 594
Diallylmethylcarbinolacetate	$(CH_2:CH.CH_2)_2Me.CO\bar{A}c$	"	177.3 c.	....	Sorokin	A., 185, 171	32, 299
Hydroxycamphor	$C_{10}H_{16}O(OH)$	"	....	248-249	Schrötter	M. C., 2, 228	42, 66
"	"	"	258-260	....	Kachler and Spitzer	M. C., 3, 217	42, 865
"	"	"	258-260	....	" "	B., 15, 2336	44, 215
"	"	"	265 (753.5)	....	" "	M. C., 4, 643	44, 1008
" ....	"	"	....	154-155	Schiff	B., 13, 1404	38, 892
" ....	"	"	....	137	Wheeler	A., 146, 83; S. J. [2], 45, 48	vi., 387
" " " ....	"	"	....	59-61	....	A., 200, 358	....
Ethylic acetisobutylidene acetate	$C_6H_8(C_4H_8)_3O_3$	$C_{10}H_{16}O_3$	219-222	Liquid	Claisen & Matthews	A., 218, 170	46, 443
" " " ....	....	"	219-222	Liquid	Matthews	....	43, 201

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyllic diallyloxalate	.... $(\text{CH}_2:\text{CH}.\text{CH}_2)_2.\text{C}(\text{OH}).\text{COOEt}$	$\text{C}_{10}\text{H}_{16}\text{O}_3$	213.6	Liquid	Saytzeff	B. S. [2], 26, 454; A., 185, 183	31, 455; 32, 882
" "	.... "	"	210	....	"	B., 9, 33	29, 697
" "	.... "	"	207-209	....	Paternò and Spica	G. I., 6, 38	31, 60
Diethyllic allylmalonate	.... $(\text{CH}_2:\text{CH}.\text{CH}_2).\text{CH}(\text{COOEt})_2$	$\text{C}_{10}\text{H}_{16}\text{O}_4$	220	....	Conrad and Bischoff	B., 13, 597	38, 628
" "	.... "	"	219-221	....	....	A., 204, 168	
" "	.... "	"	222-223 c.; 193.5-194.5 c. (330)	....	Perkin	....	45, 538
" tetramethylenedicarboxylate	$\text{CH}_2:(\text{CH}_2)_2:\text{C}(\text{COOEt})_2$	"	224	Liquid	"	B., 16, 1787	44, 1084
" tetrylenedicarboxylate	$\text{C}_4\text{H}_6(\text{COOEt})_2$	"	230	....	....	A., 208, 338	
" dimethylfumarate	$\text{COOEt}.\text{CMe}:\text{CMe}.\text{COOEt}$	"	235-240	....	Roser	B., 15, 1319	
" terpenylate	$\text{C}_6\text{H}_8(\text{OH})_2.\text{Me}.\text{COOH}$	"	abt. 300	36-38	Hempel	A., 180, 84; B., 8, 357	29, 922; 28, 763
Camphoric acid	.... $\text{C}_8\text{H}_{14}(\text{COOH})_2$	"	....	60	....	....	vii., 235
" "	.... "	"	....	70	....	....	i., 731
Mesocamphoric acid (inactive)	....	"	....	113	Wreden	Z. C. [2], 7, 419; A., 163, 327	25, 146; 25, 895
" "	....	"	....	120	Kachler	A., 191, 146	34, 513
Camphoric acid	....	"	....	174-176	Meyer	B., 3, 117	vii., 235
" "	$\text{CH}_2.\text{CMe}.\text{COOH}$ | $\text{CH}_2.\text{CPr}.\text{COOH}$	"	....	175-178	Ballo	B., 14, 338	40, 416
" "	....	"	....	176	"	"	"
" "	....	"	....	175-178	Fittig and Tollens	A., 129, 273	
" "	....	"	....	180.7	Kachler	G. J. C., 1879	
" "	....	"	....	177-178	Schroeder	— 1880	
" "	$(\text{CH}_2)_2.\text{CH}.\text{C}_2\text{H}_4.\text{COOH}$ | $(\text{CH}_2)_2.\text{CH}(\text{COOH})$	"	....	186	Muir	....	37, 688
" "	....	"	....	187	Riban	C. R., 76, 1547	35, 757
" "	....	"	....	187	"	C. R., 80, 1381	28, 1192
" "	....	"	....	197	"	C. R., 76, 1547	35, 757
" " (Lævorotary)	....	"	....	197-198	"	C. R., 80, 1381	28, 1192
" "	$\text{CH}_2.\text{CH}_2.\text{CH}.\text{COOH}$ | $\text{CHMe}.\text{CH}_2.\text{CMe}.\text{COOH}$	"	....	202-203	Armstrong and Tilden	B., 12, 1756	35, 757
Cholecamphoric acid....	....	"	....	n.f. 270 d.	Latschinoff	B., 12, 1519	38, 56
Diethyllic acetosuccinate	.... $\text{COOEt}.\text{CHAc}.\text{CH}_2.\text{COOEt}$	$\text{C}_{10}\text{H}_{16}\text{O}_5$	239-240 c. (330)	....	Perkin	....	45, 517
" "	....	"	254-256	Liquid	Conrad	A., 188, 219	34, 137
" "	....	"	260-263	....	"	B.	29, 368
Triethyllic formyltricarboxylate	$\text{CH}(\text{COOEt})_3$	$\text{C}_{10}\text{H}_{16}\text{O}_6$	254-260	Liquid	"	B., 12, 1236	36, 918
" "	"	"	250-255	....	"	B., 12, 752	
" "	"	"	200 (140)	29	"	B., 14, 618	
" "	"	"	253	29	Conrad & Guthzeit	A., 214, 31	44, 45
" "	"	"	257 (760); 144 (90)	....	Bischoff	B., 15, 1109	42, 1188
Diethyllic acetomalate	.... $\text{COOEt}.\text{CH}(\text{OAc}).\text{CH}_2.\text{COOEt}$	"	258-265.7 c. (729)	Liquid	Wislicenus	A., 129, 183	vi., 799
" "	"	"	258	....	Anschütz	B., 14, 2790	42, 831
Butenylglyceroltriacetin	....	"	153-155 u. c. (27); 261.8 (740.2)	Liquid	?	M. C., 1, 835	
Glycidic acetate	.... Polymer	"	258-261	....	....	J. p. [2], 20, 191	
Diacetyl glucose	.... $\text{C}_6\text{H}_{10}(\text{OAc})_2\text{O}_4$	$\text{C}_{10}\text{H}_{16}\text{O}_6$	....	b. 100	Schutzenberger	C. R., 68, 264	vi., 1045
Atraric acid	....	"	....	140-141	Paternò	G. I. [1882], 231; B., 15, 2242	
Hartin....	.... See $\text{C}_{10}\text{H}_{16}\text{O}$	$(\text{C}_{10}\text{H}_{17}\text{O})_n$	260	210	Schrötter	P. A., 54, 45	iii., 14

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diallylpropylcarbinol	$(\text{CH}_2 : \text{CH}.\text{CH}_2)_2.\text{Pr}^a.\text{COH}$	$\text{C}_{10}\text{H}_{18}\text{O}$	194	....	....	A., 193, 362; J. p. [2], 26, 111	
Diallylisopropylcarbinol	$(\text{CH}_2 : \text{CH}.\text{CH}_2)_2.\text{Pr}^a.\text{COH}$	"	182-185	Liquid	Riobinine & Saytzeff	B. S. [2], 31, 199	36, 613
Divalerylene hydrate	$2\text{C}_5\text{H}_8.\text{H}_2\text{O}$	"	175-177	Liquid	Reboul	C. R., 64, 419	vi., 1124
Anhydride of valeric aldehyde	....	"	190	....	Ribeaup	B. S., 13, 24; C. R., 75, 98	vi., 1123; 25, 810
" " "	....	"	195	Liquid	Borodin	B., 5, 481	vii., 37, 1196; 26, 58
" " "	....	"	195	....	Pott	B. S., 18, 244	
Anethol hexhydride ....	....	"	198	18-19	Landolph	B., 13, 146; C. R., 82, 226	29, 705; 38, 385
Cajeputol	From oil of melaleuca ericifolia	"	173	....	Gladstone	....	25, 9
"	From oil of melaleuca linariifolia	"	173	....	"	....	"
"	From oil of eucalyptus oleoza	"	171-176	....	"	....	"
"	From oil of cajeputol	"	174	....	"	....	"
" ....	....	"	175-178	....	Schmidl	14, 63	27, 319
" ....	....	"	176-179	....	Wright	B., 7, 598	27, 619
Cajeputene hydrate	$\text{C}_{10}\text{H}_{16}.\text{H}_2\text{O}$	"	175	Liquid	Schmidl	14, 63	i., 712
Salviol ....	....	"	abt. 200	....	Muir	....	37, 679
" ....	....	"	200-201	....	"	....	37, 685
Menthone ....	....	"	204-205	Liquid	Moriya	....	37, 77
" ....	....	"	206.3 c.	Liquid	Atkinson & Yoshida	....	41, 51
Terebenthene hydrate ....	....	"	210-214	Liquid	Rénard	C. R., 90, 531	38, 479
Terpene hydrate (-)	From French turpentine	"	217.7-220.7 (766.3)	....	Flawitzsky	B., 12, 2355	38, 403
" "	$\text{C}_{10}\text{H}_{16}.\text{H}_2\text{O}$	"	200-220	....	Deville	A., 71, 348	v., 923
Terpinol ....	....	"	205-215	....	Tilden	B., 12, 848	33, 248
" ....	....	"	205-215	....	"	B., 12, 1132	35, 287
Geraniol ....	....	"	232-233	1. - 15	Jacobsen	A., 157, 234; J. [1879], 941	24, 261; vii., 552
Borneol (+) ....	....	"	212	197.5-198	Kachler	A., 197, 86	36, 1039
" (+) ....	....	"	212	197.5	Pelouze	A., 37, —	i., 626
" (-) ....	....	"	210	35	....	A., 101, 95; 105, 67	
" (-) ....	....	"	220	....	....	A. C. [5], 14, 21	
Camphol (inactive) ....	....	"	209-210	198-199	Armstrong & Tilden	B., 12, 1755	35, 752
"	From sage camphor	"	....	199-200	Muir	....	37, 686
Ngai borneol ....	....	"	....	198	Haller	C. R., 98, 578	46, 755
" camphor ....	....	"	....	204	Plowman	P. J. T. [3], iv., 712	27, 582
Oil from styrax	Or $\text{C}_{10}\text{H}_{16}\text{O}$	"	170-180	s. - 10	Van t'Hoff	B. S. [2], 25, 175	31, 478
Ketone (?) ....	....	"	189-191	Liquid	Pawlaw	A., 187, 134	32, 733
Butyrylchloride on zinc methide	....	"	189-191	Liquid	"	B. S. [2], 27, 263	32, 311
?	....	"	190	....	Kekulé	A., 162, 77	vii., 1196
(Propylmethyl ketone) ₂ -H ₂ O	....	"	190-192	....	Pawloff	B., 8, 767	29, 895
From oil of osmitopsis asteriscoides	....	"	178-188	....	Gornp-Besanez	J., 7, 596	
From essence of lemon	....	"	a. 200	....	Tilden	P. J. T. [3], 9, 654	36, 386
From oil of citronella	....	"	210-225	....	Wright	....	27, 318
" coriander	....	"	150	....	Kawalier	J., 5, 624	
" valerian....	....	"	205-215	....	Bruylants	B., 11, 454	
From likari Canadi ....	....	"	198 (755)	....	....	C. R., 92, 998; 94, 733	
" wormseed oil ....	....	"	173-174	....	Kraut & Erdmann	A., 87, 312	
" " " ....	....	"	172-174	....	Kraut & Wahlfross	A., 89, 358	
" " " ....	....	"	174-175	....	Græbe	B., 5, 680	
" " " ....	....	"	173-174	....	Faust and Homeyer	B., 7, 1427	
From oil of hops ....	....	"	210	....	....	J. [1853], 516; [1854], 654	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Alcohol from oil of tansy ....	....	$C_{10}H_{18}O$	203-205	....	Bruylants	B., 11, 452	34, 512
" " " ....	....	"	205-210	....	"	J. Ph. [4], 26, 393	34, 158
From menthol ....	....	"	204-205	....	?	?
" reduction of valeral	$(C_{10}H_{18}O)_a$	"	250-290	Liquid	Borodin	Z. C. P. [1864], 353	v., 973
Isoamylic angelate ....	....	$C_{10}H_{18}O_2$	200-201	....	....	A., 195, 100	
" tiglate ....	....	"	204-205	....	....	A., 195, 101	
Allylacetone pinacone	$(C(OH)Me.C_3H_5)_2$	"	254-262	Liquid	Kablukoff	B., 13, 1843	40, 146
Divaleryl	$Pr^{\beta}.CH_2.CO.CO.CH_2.Pr^{\beta}$	"	270-280 pd. ; 210-220 (80-100)	Liquid	Bruhl	B., 12, 319	36, 520
Decacrylic acid ....	....	"	....	86	....	Z. C. [1868], 383	
Amenylvaleric acid	$C_4H_8(C_5H_9).COOH$	"	241.5 c.	....	Borodin	J. [1870], 680	
" "	"	"	235-245	....	Hell and Schoop	B., 12, 193	
" "	"	"	268-270	Liquid	Geuther, Fröhlich, and Looss	A., 202, 288	38, 623
inacrol ....	....	"	abt. 250	Liquid	Hirzel	J., 1854 or 1855	v., 1048
Campholic acid ....	....	"	250	80	Delalande	A. C. [3], 1, 120	i., 726
" " ....	....	"	....	95	Kachler	A., 162, 259 ; B., 5, 166	vii., 232 ; 25, 496
" " ....	....	"	....	98	Montgolfier	A. C. [5], 14, 99	34, 900
" " ....	....	"	253-255 u. c.	105-106	"	"	"
From amylaldehyde ....	....	"	187-191	....	Göss and Hell	B., 8, 372	
Ethyl diethylacetoacetic acid	$CEt_2Ac.COOEt$	$C_{10}H_{18}O_3$	200-215	....	Geuther	J. Z., 6 ; J. p. [2], 3, 431	vii., 488 ; 24, 817
" " "	"	"	210-212	....	Frankland & Duppá	J., 18, 306	
" " "	"	"	208-211	....	Wislicenus	B., 7, 686	27, 884
" " "	"	"	218	....	"	A., 186, 191	32, 433
" isobutylacetoacetate	$CHMe_2.CH_2.CHAc.COOEt$	"	217-218	Liquid	Rohn	A., 190, 306	34, 486
" "	"	"	200-210	....	Mixter	B., 7, 501	
Methylic hydroxyethenyl- amylacetate	$CH_2 : C(OH).CH(C_5H_{11}).COOMe$	"	250	....	Poetsch	A., 218, 56	44, 730
Oxocetenolacetic ether ....	....	"	200-202	....	....	J. R. [1882], 199	
Valeric anhydride	$(C_5H_9O)_2O$	"	215	....	Chiozza	A., 84, 107	v., 979
Trimethacetic anhydride	$(CMe_3.CO)_2O$	"	190	....	Butlerow	B., 7, 728	27, 1084
" " ?	"	"	....	1. -20	"	A., 173, 374	28, 250
Hexylene diacetate	$CH_2OAc.(CH_2)_4.CH_2OAc$	$C_{10}H_{18}O_4$	210-212 207	Liquid	Wanklyn	unpublished	vi., 17 vi., 94
" "	"	"	215-220	Liquid	Wurtz	A. C. [4], 3, 180	vi., 699
Diallyl diacetate	$CH_2OAc.(CHMe)_2.CH_2.OAc$	"	225-230	Liquid	"	A. C. [4], 3, 162	vi., 94
Ethylene dibutyrate	$C_2H_4(O.C_4H_7O)_2$	"	239-241	Liquid	"	A. C. [3], 55, 433	i., 696
Ethyl butyroxylbutyrate ....	....	"	215	....	....	A., 142, 373	
Diisobutyl oxalate	$Pr^{\beta}CH_2.CO.CO.CH_2.Pr^{\beta}$	"	224-226	....	Cahours	B. S., 21, 358 ; C. R., 77, 1403	27, 349
Diisopropyl succinate	$COOPr^{\beta}.(CH_2)_2.COOPr^{\beta}$	"	228 (761)	Liquid	Silva	C. R., 69, 416 ; A., 154, 255	vi., 966
Diethyl ethylmethylmalonate	$CMeEt(COOEt)_2$	"	207-208	....	Conrad and Bischoff	B., 13, 596 ; A., 204, 146	38, 627
Diethyl propylmalonate	$CHPr^{\alpha}(COOEt)_2$	"	221-224 u. c. ; 193.5-194.5 c. (330)	....	Perkin	....	45, 514
" isopropylmalonate	$CHPr^{\beta}(COOEt)_2$	"	216.5-217.5 u. c. (760) ; 188-188.5 c. (330)	....	"	....	"
" "	"	"	213-214	Liquid	Conrad and Bischoff	B., 13, 596 ; A., 204, 146	38, 627
" ethylsuccinate	$COOH.CHEt.CH_2.COOH$	"	222-225	....	Huggenberg	A., 192, 151	34, 782
" dimethylsuccinate	$COOEt.C_2H_5Me_2.COOEt$	"	230-235	....	....	M. C., 2, 546	
" adipate	$C_4H_8(COOEt)_2$	"	a. 230	Liquid	Malaguti	A., 56, 306	i., 58
" "	"	"	245	....	Arppe	Z. C. [1865], 302 ; J. [1864], 377	vi., 58

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dimethylic suberate....	$C_8H_{12}(COOMe)_2$	$C_{16}H_{18}O_4$	260	....	Laurent	A. C. [2], 66, 162	
Ethylic oxytetrolate....	$C_4H_3O(OEt)_3$	"	225	Liquid	Demarçay	B. S. [2], 33, 575	40, 255
" homoitaconate	$C_4H_8(COOEt)_2$	"	230	Liquid	Markownikoff and Krestownikoff	A., 208, 333	40, 1127
Heptylmalonic acid	$C_7H_{15}.CH.(COOH)_2$	"	....	97-98	Venable	B., 13, 1651	40, 82
Sebacic acid (ipomœic)	$COOH.(CH_2)_8.COOH$	"	....	104	Mayer	A., 83, 143	iii., 314; v., 214
" " " " " " " " " "	"	"	....	127	Carlet	J., 6, 429	v., 213
" " " " " " " " " "	"	"	....	127	Mayer	A., 83, 143	27, 729
" " " " " " " " " "	"	"	....	126-127 ; 127-128	Neison and Bayne	....	27, 730
Acid ....	....	"	....	184-194	....	A., 195, 122	
Diethylic ethoxysuccinate	$COOEt.CH_2OEt.CH_2.COOEt$	$C_{10}H_{18}O_5$	a. 225 p. d. (760); 195-200 (250)	....	Purdie	....	39, 348
" " " " " " " " " "	"	"	128-131 (15)	....	Andreoni	B., 13, 1394	
" dilactate	"	"	235	....	....	A. C. [3], 63, 112	
Triethylic ethoxyacetyl- ethoxyacetate	$CH_2(OEt).CO.CH(OEt).COOEt$	"	abt. 245	....	Conrad	B., 11, 59	34, 403
" ?	"	"	251	....	....	Z. C. [1867], 708	
Triethylene diacetate	$(O.C_2H_4.OAc)_2$	$C_{10}H_{18}O_6$	290	....	....	....	ii., 568
" " " " " " " " " "	"	"	abt. 300	....	Wurtz	J., 16, 489; A. C. [3], 69, 336	
Dipropylic dextrotartrate	$COOPr^a.(CH.OH)_2.COOPr^a$	"	181 (23); 303 (760)	Liquid	Anschütz and Pictet	B., 13, 1177	38, 876
Diisopropylic dextrotartrate	$COOPr^b.(CHOH)_2.COOPr^b$	"	275 (760); 165 (23)	Liquid	Anschütz	B., 14, 2790; 15, 2242	42, 831
Anisoic acid ....	....	"	....	abt. 120	Limpricht & Ritter	A., 97, 364	i., 304
Diethylic mucate	$C_4H_8O_4(COOEt)_2$	$C_{10}H_{18}O_8$	....	150	Malaguti	A. C. [2], 63, 86	iii., 1059
" " " " " " " " " "	"	"	....	158	Limpricht	A., 165, 254	vii., 827; 28, 622
Diethylic isosaccharate	$C_6H_8O_6(OEt)_2$	"	....	73	Tiemann	B., 17, 249	46, 725
Diacetodulcicite	$C_6H_8(OH)_4(OAc)_2$	"	....	176	Bouchardat	A. C. [4], 27, 147; C. R., 74, 665	vii., 441; 25, 400
Isocaprinic aldehyde....	....	$C_{10}H_{20}O$	169 c.	....	....	J. [1870], 680	
Octylmethylketone	$Me.CO.(CH_2)_7.Me$	"	214-215	s. f. m.	Jourdan	A., 200, 106	38, 314
" " " " " " " " " "	"	"	211 (760); 142 (100)	3.5	Krafft	B., 15, 1695	42, 1271
" " " " " " " " " "	$Me.CO.CH_2.CHMe(C_5H_{11})$	"	196-198	....	Venable	B., 13, 1651	
Isopropylhexylketone	$Pr^a.CO.C_6H_{13}$	"	200-210	....	....	J. R., 7, 334	
Dipropylallylcarbinol	$(CH_2:CH.CH_2).Pr^a.CO.H$	"	192 (769)	....	A. and P. Saytzeff	B., 11, 1939	36, 136
Diisopropylallylcarbinol	$(CH_2:CH.CH_2).Pr^b.CO.H$	"	169-171	....	....	J. p. [2], 23, 22	
Diamylene oxide	....	"	170-180	....	Bauer	R. C. p. [1863], 3	vi., 122
" " " " " " " " " "	$Pr^b.(CH_2)_3.CHMe.CH:CH_2$	"	180-190	....	Schneider	A., 157, 185	vii., 64
Menthol (menthylic alcohol, peppermint camphor)	$C_{10}H_{19}.OH$	"	225	....	Gladstone	....	25, 9
" " " " " " " " " "	"	"	225	....	"	....	"
" " " " " " " " " "	"	"	....	25	Dumas	A., 6, 252	iii., 880
" " " " " " " " " "	"	"	....	27	Blanchet and Sell	A., 6, 293	"
" " " " " " " " " "	"	"	....	34	Walter	A., 32, 288	"
" " " " " " " " " "	"	"	....	36.5	Gmelin	Handbuch, ii., 408	"
" " " " " " " " " "	"	"	210	36	Oppenheim	A., 120, 351	iii., 880; 15, 24
" " " " " " " " " "	"	"	210-212	37.2-39	Moriya	....	39, 77
" " " " " " " " " "	"	"	....	39	Moss	....	29, 1
" " " " " " " " " "	"	"	212 c.	42	Beckett and Wright	....	"
" " " " " " " " " "	"	"	212 c.	42.2	Atkinson & Yoshida	....	41, 49
" ? " " " " " " " " " "	" (artificial)	"	....	42.2	"	....	41, 51
" ? " " " " " " " " " "	Ketone ?	"	190-195	....	"	J. R., 9, 75; 10, 229	
Octylic acetate	$C_8H_{17}.OAc$	$C_{10}H_{20}O_2$	163-180	....	De Clermont	J., 21, 449; Z.C. [1868], 492	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Octylic acetate	Me.CH(OAc).C ₆ H ₁₃	C ₁₀ H ₂₀ O ₂	abt. 176	Liquid	De Clermont	C. R., 66, 1211	vi., 880
" "	C ₈ H ₁₇ .OAc	"	190	Liquid	Bouis	C. R., 38, 937	i., 24
" "	"	"	191-192	....	Dachauer	J., 11, 305	
" "	Me.CH(OAc).C ₆ H ₁₃	"	193	....	Bouis	J., 8, 526	vi., 880
" "	C ₈ H ₁₇ .OAc	"	190-195	....	Pelouze and Cahours	J., 16, 529	
" "	Et.CH(OAc).C ₅ H ₁₁	"	198-202	....	Schorlemmer	A., 152, 152	vi., 879
" "	Me.CH(OAc).(CH ₂) ₃ Pr ^β	"	200-205	Liquid	"	J., 22, 368	"
" "	C ₇ H ₁₅ .CH ₂ .OAc	"	200-212	Liquid	Zincké	A., 152, 2	vi., 697
" "	CHMe ₂ (CH ₂) ₄ .CH ₂ .OAc	"	206-208	....	"	"	vi., 878
" "	CH ₃ (CH ₂) ₆ .CH ₂ .OAc	"	211-25-212 c. (250)	....	Perkin	....	45, 496
Hexylic butyrate	CH ₂ .CH ₂ .CH ₂ .COOC ₆ H ₁₃	"	201-206	....	....	A., 163, 198	
Amylic valerate	C ₄ H ₉ .COOC ₆ H ₁₁	"	182-184	....	....	C. R., 94, 1652	
" "	"	"	187-188	Liquid	Kopp	A., 96	v., 980
" "	CH ₃ (CH ₂) ₃ .COO.(CH ₂) ₄ .CH ₃	"	190	Liquid	Pierre and Puchot	J. Ph. [4], 13, 369	24, 902
Isoamylic "	Pr ^β .CH ₂ .COO(CH ₂) ₂ Pr ^β	"	190	....	" "	C.R., 76, 1332	26, 1017; vii., 62
" " (inactive)	"	"	190.3 (748)	....	Balbiano	G. I., 6, 229	31, 293
" "	C ₄ H ₉ .COOC ₆ H ₁₁	"	196	....	Balard	A., 52, 311	v., 980
Isopropylic isoheptylate	CH ₃ (CH ₂) ₃ .CHMe.COOPr ^β	"	177	....	Hecht	A., 209, 325	42, 41
Propylic "	CH ₃ (CH ₂) ₃ .CHMe.COOPr ^α	"	191-192 (754.5)	....	"	A., 209, 324	"
Ethyl caprylate	C ₇ H ₁₅ .COOEt	"	214	Liquid	Fehling	A., 53, 405	i., 747
" "	CH ₃ (CH ₂) ₆ .COOEt	"	206-208	s. 47 or -47 ?	Cahours & Demargay	C. R., 89, 331	36, 1037
" "	"	"	204-206	....	Zincke	A., 152, 12; J., 22, 373	
" "	"	"	207-208 (763.2)	Liquid	Renesse	A., 171, 381	27, 1155
" "	"	"	207-208 (753.1)	Liquid	"	"	"
" "	C ₆ H ₁₃ .CH ₂ .COOEt	"	196	....	Lundahl	B., 16, 789	
" "	CHPr ₂ .COOEt	"	183	Liquid	Burton	A. C. J., 3, 385	42, 600
" "	CHMe ₂ (CH ₂) ₂ .CHMe.COOC ₆ H ₁₃	"	175	....	Carleton-Williams	....	35, 129
Methylic nonylate	CH ₃ (CH ₂) ₇ .COOMe; or CHMe ₂ (CH ₂) ₅ .COOMe	"	213-214 c. (756.8)	Liquid	Franchimont and Zincké	B., 5, 20; A., 164, 338	vii., 898; 25, 301
Capric acid	C ₄ H ₉ (C ₆ H ₁₁).COOH	"	241.5	l.-37	Borodin	Z. C., 6, 416	vii., 250
" "	tertiary	"	250-253	....	Menschutkin	A. C. [5], 23, 14	40, 886
" "	....	"	....	27-46	Reichardt	A. P. [3], 10, 339	32, 518
" "	....	"	....	s. 30	"	"	"
" "	iso-	"	268-270 p.d.	30	Grimm	A., 157, 264	24, 360; vii., 249
" "	....	"	....	30	Görgey	A., 66, 295	
" "	....	"	....	27.2	Rowney	A., 79, 236	
" "	....	"	264	29.5	Fischer	A., 118, 312	
" "	CH ₃ (CH ₂) ₈ .COOH	"	200 (100)	31.3-31.4	Krafft	B., 15, 1696, 1708	42, 1272
" ?	CMe ₂ :CH.O.CH(OEt).Pr ^β	"	223 (756.8)	....	Æconimides	B. S. [2], 36, 210	42, 32
Terpin hydrate	C ₁₀ H ₁₆ .2Aq	"	sb. 150	103	Déville	A., 71, 349	v., 923
" "	....	"	250	118	....	J. [1855], 643	
" "	....	"	....	b. 100	?	?	
Oil of ash leaves	....	"	175	....	Gintl and Reinitzer	M. C., 3, 762	44, 219
Ethyl hydroxycaprylate	Pr ^β .C(OH).COOEt	C ₁₀ H ₂₀ O ₃	202-204 c.	Liquid	Markownikoff	Z. C., 6, 516	vii., 885
" "	C ₆ H ₁₃ .CH(OH).COOEt	"	229-230 (715)	....	Erlenmeyer & Sigel	A., 177, 105	28, 1011
Myristicin	....	"	....	a. 100	....	....	iv., 145
Matezite	....	C ₁₀ H ₂₀ O ₉	....	181	Girard	B. S., 21, 220; C. R., 77, 995	27, 169
Decyl alcohol	C ₉ H ₁₉ .CH ₂ OH	C ₁₀ H ₂₂ O	155-157	....	Anitow	B., 5, 479	vii., 18; 26, 48
" "	....	"	abt. 200	....	Lemoine	B. S., 41, 161	46, 1107
" "	iso-	"	203.3	....	Borodin	Z. C. P. [1864], 353	v., 973
" "	from diisoamyl	"	202-203	....	Grimshaw	B., 10, 1602	
" "	"	"	211-213	....	"	"
" "	....	"	225-235	....	....	Z. C. [1870], 404	

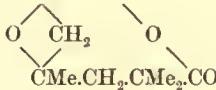
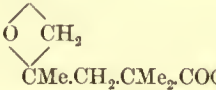
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Decyl alcohol	$\text{CH}_3(\text{CH}_2)_8\text{CH}_2\text{OH}$	$\text{C}_{10}\text{H}_{22}\text{O}$	119 (15)	7	Kraft	B., 16, 1714	44, 1076
Diamylene hydrate ....	....	"	163	....	Wurtz	J., 16, 516	
Diamyl oxide....	$\text{C}_5\text{H}_{11}\text{O}.\text{CHMe}.\text{CHMe}_2$	"	160-165	Liquid	"	A. C. [4], 3, 137	vi., 113
" "	$\text{C}_6\text{H}_{11}\text{O}.\text{CH}_2.\text{C}_4\text{H}_9$	"	176	....	Williamson	G. J. C., 1852	ii., 537
" "	$\text{C}_6\text{H}_{11}\text{O}.\text{C}_5\text{H}_{11}$	"	175-183	....	Rieckher	J., 1, 698	i., 205
" " (iso-)	"	"	170-175	....	Wurtz	J., 9, 564	
" "	"	"	176	....	"	G. J. C., 1856	
Diisoamyl oxide ....	....	"	172.5-173 c.	....	Perkin	....	45, 474
Octyl ethyl oxide	$\text{C}_8\text{H}_{17}\text{O}.\text{Et}$	"	177	....	?	?
" " "	"	"	182-184	Liquid	Möslinger	B., 9, 998	30, 394
Propyl methyl pinacone	$\text{CMePr}(\text{OH}).\text{CMePr}(\text{OH})$	$\text{C}_{10}\text{H}_{22}\text{O}_2$	220-225	....	Friedel	J. [1869], 513	24, 386
" " "	"	"	225-230	gentle heat	"	A. C. [4], 16, 366	vii., 1022
" " "	"	"	225-230	....	Grimm	A., 157, 249	24, 386
Diethyl pinacone	$\text{CEt}_2(\text{OH}).\text{CEt}_2(\text{OH})$	"	....	27-28	Schramm	B., 16, 1584	44, 1080
Diisobutylacetal	$\text{CH}_3.\text{CH}(\text{O}.\text{CH}_2\text{Pr}^{\beta})_2$	"	168-170	Liquid	Gérard	C. R., 91, 629	40, 35
Cinchocrotic acid ....	....	"	....	72	Helms	A. P. [3], 21, 279	46, 332
Tripropyl orthoformate	$\text{CH}(\text{OPr}^{\alpha})_3$	$\text{C}_{10}\text{H}_{22}\text{O}_3$	192-196	....	Pinner	B., 16, 1646	44, 1089
" " "	"	"	196-198	....	Deutsch	B., 12, 117	36, 453
Ethylideneoxypropyl alcoholate	$\text{C}_4\text{H}_8(\text{OPr}^{\alpha})_2\text{O}$	"	184	....	Laatsch	A., 218, 13	44, 788
Diamylene glycol ....	....	"	a. 200	....	....	J. [1861], 662	
Ethyl isoamylin	$\text{C}_3\text{H}_5(\text{OEt})(\text{OC}_5\text{H}_{11})(\text{OH})$	"	238-240	Liquid	Reboul	As., 1, 237; J., 13, 465	ii., 884
Terpin hydrate	$\text{C}_{10}\text{H}_{16}.\text{3H}_2\text{O}$	"	....	slightly b. 100	List	G. J. C., 1847, 1848	v., 923
" " ....	"	"	....	103	Nietzki	A. P. [3], iv., 317	27, 892
" " (identical)	"	"	....	117-121	Bouchardt	C. R., 89, 361	36, 1039
Diisoprene hydrate "	"	"	....	117-121	"	"	"
Caoutchene " "	"	"	....	117-121	"	"	"
Cajputene " ....	"	"	....	120	Schmidl	14, 63	i., 712
Diethyl glycolacetal	$\text{CH}(\text{OEt})_2.\text{CH}(\text{OEt})_2$	$\text{C}_{10}\text{H}_{22}\text{O}_4$	abt. 180	....	Pinner	B., 5, 151	25, 407; vii., 2
Pentethylenic glycol ....	....	$\text{C}_{10}\text{H}_{22}\text{O}_6$	281 (25)	....	Lourenço	A. C. [3], 67, 280; J., 13, 443	
Physetoleic acid ....	....	$\text{C}_{10}\text{H}_{20}\text{O}_2$	....	30	Hofstädter	A., 91, 177	iv., 634
α -Naphthoic aldehyde	$\text{C}_{10}\text{H}_7.\text{COH}$	$\text{C}_{11}\text{H}_8\text{O}$	abt. 280	Liquid	Battershall	Z. C. [2], 7, 292	24, 1057; vii., 839
β- " " ....	"	"	....	59.5	"	Z. C. [2], 7, 673	vii., 839; 25, 699
β -Naphthol aldehyde	$\text{C}_{10}\text{H}_6.\text{OH}.\text{COH}$	$\text{C}_{11}\text{H}_8\text{O}_2$	....	76	Kaufmann	B., 15, 804	42, 1068
β- " " ....	"	"	....	77	Rousseau	A. C. [5], 28, 145; C. R., 95, 39	46, 180
α -Naphthoic acid	$\text{C}_{10}\text{H}_7.\text{COOH}$	"	....	139-140	Carstanjen & Schertel	J. p. [2], 4, 49	24, 920
α - " "	"	"	physical isomer	142-143	Merz and Weith	B., 10, 748	32, 603
α- " " ....	"	"	....	156	Carstanjen & Schertel	J. p. [2], 4, 49	24, 920
α- " " ....	"	"	....	160	Hofmann	B., 1, 40; A., 142, 121	vi., 851
α- " " ....	"	"	....	160	Merz	Z. C. [2], 4, 34	"
α - " "	"	"	physical isomer	160	Merz and Weith	B., 10, 748	32, 603
α- " " ....	"	"	....	161	Weith	B., 6, 967	
α- " " ....	"	"	....	161	Liebermann	A., 183, 225	31, 608
α- " " ....	"	"	....	161	Palm	B., 9, 499	30, 206
α- " " ....	"	"	....	161	Watson Smith	....	32, 563
β - " " (isonaphthoic)	"	"	....	181	Liebermann	A., 183, 225	31, 608
β- " " " "	"	"	....	181	Palm	B., 9, 499	30, 206
β- " " " "	"	"	....	181	Watson Smith	....	32, 563
β - " " " "	"	"	α . 300	182=184 c.	Merz & Mühlhäuser	Z. C. [2], 5, 71	vi., 851
β- " " " "	"	"	....	182	Battershall	Z. C. [2], 7, 673	25, 699
β- " " " "	"	"	....	182	Vieth	A., 180, 305	30, 86
β- " " " "	"	"	....	182	Ciamician	B., 11, 272	34, 439

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hydroxynaphthoic acid	$C_{10}H_6.OH.CO.OH=\beta\beta$	$C_{11}H_8O_3$	....	150 d.	Kaufmann	B., 15, 806	42, 1068
a- " " ....	" = ?	"	....	185-186	Schaffer	A., 152, 291	vi., 852
a- " " ....	" "	"	....	185-186	Cleve	B. S. [2], 26, 241	31, 208
a- " " ....	" "	"	....	185-186	Stumpf	A., 188, 1	34, 75
a- " " ....	" "	"	....	186-188	Eller	A., 152, 277	vi., 852
γ - " "	" = $a\beta$;	"	....	186-187	Stumpf	A., 188, 8	34, 74
" " "	" = $a\beta$	"	....	210-211	"	A., 188, 11	"
" " " ....	" "	"	....	212-213	Battershall	A., 168, 125	vii., 838; 26, 1138
a- " " "	" = aa;	"	....	234-237	"	A., 168, 121	" "
a- " " " ....	" "	"	....	234-237	Stumpf	A., 188, 4	34, 74
β - " " "	" = $a\beta$;	"	....	245-247	"	A., 188, 6	"
Acetoxycoumarin	$C_6H_3(OAc).CH:CH.CO.O$	$C_{11}H_8O_4$	....	140	Tiemann and Lewy	B., 10, 2216	34, 424
" " " ....	" "	"	....	140	Tiemann & Reimer	B., 12, 995	36, 721
a-Phthalylpropionic acid	$C_6H_4:(CO)_2:CH.CH_2.CO.OH$ =1.2	"	....	245-248	Gabriel & Michael	B., 11, 1013	34, 735
a-Dioxyquinone	$C_{11}H_6(OH)_2:O_2$	"	....	a. 360	Thörner	B., 11, 534	34, 575
Acetyl daphnetin	$C_9H_5.OAc.O_3$	$C_{11}H_8O_5$	....	129-130	Stinkel	B., 12, 112	36, 469
Tetramethylic prehnitate	$C_6H_2(COOMe)_4=1.2.3.5$	$C_{11}H_8O_8$	....	104-108	Baeyer	....	vi., 811
Acetyl polyporic acid	$C_9H_6AcO_2$	$(C_{11}H_9O_3)_4$	....	abt. 205	Stahlschmidt	A., 187, 177	32, 621
a-Naphthyl-methyl oxide	$C_{10}H_7.O.Me$	$C_{11}H_{10}O$	258	Liquid	Städel	B., 14, 899; A., 207, 42	40, 724; 44, 585
a- " " " "	"	"	263-265	Liquid	Hantzsch	B., 13, 1347	38, 813
a- " " " "	"	"	265-266	l. -10	Marchetti	G. I., 9, 544	38, 261
β - " " " "	"	"	274	70	"	"	"
β- " " " " ....	"	"	....	72	Städel	B., 14, 899; A., 207, 43	40, 724; 44, 585
Ethyl phenylpropiolate	$Ph.C:C.CO.OEt$	$C_{11}H_{10}O_2$	260-270	l. 0	Perkin	....	45, 174
Cinnamylacrylic acid	$Ph.(CH:CH)_2.CO.OH$	"	....	165-166	"	J. [1877], 791	31, 404
Butyric coumarin	$C_6H_4 \begin{array}{l} \text{CH:CHEt} \\ \text{O.CO} \end{array} =1.2$	"	296-297 p. d.	70-71	"	A., 147, 233; 150, 84	21, 53; vi., 500
" " " "	"	"	299 d.	....	"	....	39, 439
Diketone	$C_6H_4:(CO)_2:C:(CH_3)_2=1.2$	"	....	96	Gabriel & Michael	B., 11, 1683	36, 246
Benzoylcrotonic acid	$Bz.CMe:CH.CO.OH$	$C_{11}H_{10}O_3$	....	113	Pechmann	B., 15, 891	42, 1074
Benzoyltrimethylenecarboxylic acid	$CH_2.CH_2.CBz.CO.OH$	"	....	148	Perkin	B., 16, 2136	46, 64
Tolylacrylic acid	$C_6H_4.Me.CO.CH:CH.CO.OH$	"	....	138	Pechmann	B., 15, 888	42, 1074
Methyl- β -methylumbelliferone	$C_6H_3(OMe)CMe:CH.CO.O$	"	....	159	Pechmann & Duisberg	B., 16, 2119	46, 66
a- β -Dimethylumbelliferone	$C_6H_3(OH).CMe:CMe.CO.O$	"	....	256	" "	"	46, 67
Phenylparaconic acid	$CH_2.CO.OCHPh.CH.CO.OH$	$C_{11}H_{10}O_4$	....	100	Fittig	B., 14, 1825	42, 190
" " " " ....	"	"	....	109	Jayne	A., 216, 108	44, 473
" " " + $\frac{1}{2}H_2O$	"	"	....	99	"	"	"
Acetylconmaric acid	$C_6H_4.OAc.(CH:CH.CO.OH)$ =1.2	"	....	146	Tiemann & Herzfeld	B., 10, 284	31, 709
" " " "	" =1.3	"	....	151	Tiemann & Ludwig	B., 15, 2048	44, 189
" " " "	" =1.4	"	....	195	Tiemann & Herzfeld	B., 10, 65	32, 893
Acetylbenzoicacetic anhydride	$C_6H_4.Ac(CO.OAc)=1.2$	"	....	70.5-71	Gabriel	B., 14, 920	40, 733
Benzhydrylpropionic anhydride	$C_6H_4 \begin{array}{l} \text{CH}_2.C_2H_4.CO.OH \\ \text{CO.O} \end{array}$	"	....	Softens 135; melts 140	Gabriel & Michael	B., 11, 1681	36, 246
Hydrindonaphthalene dicarboxylic acid	$C_6H_4 \begin{array}{l} \text{CH}_2 \\ \text{CH}_2 \end{array} C(COOH)_2=1.2$	"	....	199	Baeyer and Perkin	B., 17, 122	46, 753
Diacetylacetosalicyl	$C_6H_4.OAc.CH(OAc)_2=1.2$	"	....	104-105	Barbier	C. R., 90, 37	38, 318
Methylene a-homocaffeic acid	$CH_2:O_2:C_6H_3.CH:CMe.CO.OH$	"	....	192-194	Lorenz	B., 13, 759	40, 49
Ethyl aesculetin	$C_6H_3(OH)(OEt).C_2H_5.CO.O$	"	....	143	Will	B., 16, 2106	46, 67

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Useol ....	....	$C_{11}H_{12}O_3$	....	175	Paternò	G. I. [1882], 231; B., 15, 2241	42, 1082
Ethylaceto-furfuralacetate....	$C_6H_5(C_3H_4O)_3$	$C_{11}H_{12}O_4$	188 (30)	62	Claisen & Matthews	A., 218, 170	46, 443
"	"	"	188-189 (29-32)	62-62.5	Matthews	....	43, 204
Benzylmethylmalonic acid ...	$C_6H_5 \cdot CH_2 \cdot CHMe(COOH)_2$	" .....	....	135	Conrad & Bischoff	A., 204, 178; B., 13, 595	38, 628
Benzylidene diacetate	$C_6H_5 \cdot CH(OAc)_2$	"	190-240	36	Wicke	A., 102, 368	i., 578
" .....	" .....	" .....	....	45-46	Perkin	20, 590	vi., 328
" .....	" .....	" .....	....	44-45	Hübner	B. S. [2], 8, 459	vi., 24, 328
Ethyl benzoylglycollate	$CH_2BzO \cdot COOEt$	"	286.4-288.4	....	Andrieff	J., 18, 344	
"	"	"	277-279 c.	....	....	A., 80, 32; 133, 284	
Acetoxybenzylic acetate	$C_6H_5 \cdot OAc(CH_2 \cdot OAc)=1.3$	"	290	s.-18	Velden	J. p. [2], 15, 170	32, 339
Diacetyl orcinol	$Me.(OAc)_2=1.3.5 (?)$	" .....	....	25	De Luynes	Z. C. [2], 4, 703	vi., 885
"	"	"	280-284 (704)	....	Rasinski	J. p. [2], 26, 61	42, 1289
Diacetyltoluquinol	$Me.(OAc)_2= ?$	" .....	....	52	Nietzki	B., 11, 1279; A., 215, 160	34, 868; 44, 467
Acetoxyethoxysalicyl aldehyde	$COH.OAc.OEt=1.2.5$	"	285 p. d.	69	Hantzsch	J. p. [2], 22, 468	40, 167 (?)
" .....	" .....	" .....	....	69	Tiemann & Müller	B., 14, 1995	42, 53
Methylic hesperitate	$(C_2H_5 \cdot COOMe).OH.OMe$	" .....	....	79	Tiemann and Will	B., 14, 967	40, 740
"	$=1.3.4$	" .....	....	....	" .....	B., 14, 960	"
Dimethylcaffeic acid	$(C_2H_5 \cdot COOH).(OMe)_2=1.3.4$	" .....	....	180	"	B., 11, 653	34, 580
" .....	" .....	" .....	....	180-181	Tiemann and Nagai	B., 15, 2080	44, 200
Dimethylumbellic acid ....	" .....	" .....	....	184	Tiemann and Will	B., 16, 2116	46, 68
" .....	" .....	" .....	....	138	Will	B., 16, 2119	46, 67
Methoxyhydroxymethylcinamic acid	$(CMe : CH.COOH).OMe.OH$	" .....	....	140 d.	Pechmann and Duisberg	B., 15, 2064	44, 201
Methoxyhydroxymethylcinamic acid (homofuric)	$(CH : CMe.COOH).OMe.OH$	" .....	....	167-168	Tiemann and Kraaz	B., 10, 202	32, 339
"	$=1.3.4$	" .....	....	....	" .....	B., 10, 202	32, 339
Ethylic ethyleneprotocatechuate	$C_6H_5 \cdot (COOEt).O.C_2H_4.O$	" .....	....	27-28	Fittig & Macalpine	A., 168, 104	26, 1144
"	$=1.3.4$	" .....	....	....	" .....	B., 13, 760	40, 49
Methylene α -homohydrocaffeic acid	$CH_2 : O_2 : C_6H_5(CH_2 \cdot CHMe.COOH)$	" .....	....	77	Lorenz	B., 13, 760	40, 49
Eugetic acid	$COOH.OH.OMe.C_3H_6$	" .....	....	124	Schench	A., 125, 14	ii., 968
"	$=1.2.3.5$	" .....	....	....	" .....	B., 5, 168; A., 167, 72	vii., 54
Acetyl alorcinic acid....	$C_6H_5Me_2.OAc.COOH$	" .....	....	Begins 125 d.	Weselsky	B., 8, 1461	29, 599
Ethylic ? -ate....	$C_{11}H_{14}O_4 ?$	" .....	....	147	Salkowski	A., 146, 371	20, 586; vi., 1008
Salicyl and acetic anhydride	$C_7H_6O_2 + C_4H_6O_3$	$C_{11}H_{12}O_5$	....	103-104	Perkin	A., 146, 371	20, 586; vi., 1008
Acet- α -homovanillic acid	$(CH_2 \cdot COOH).OMe.OAc$	" .....	....	140	Tiemann and Nagai	B., 10, 202	32, 339
"	$=1.3.4$ or $1.4.3$	" .....	....	....	" .....	B., 10, 202	32, 339
Methylic opianate	$COOMe.(OMe)_2 \cdot COH$	"	d. 63	83-85	Wegscheider	M. C., 3, 358	42, 1207
"	$=1.2.3.6$	" .....	....	....	" .....	M. C., 3, 358	42, 1207
" isopianate	$=1.3.4.5$	" .....	....	98-99	Tiemann and Mendelsohn	B., 10, 397	32, 487
Dimethylic hydroxyuvitate....	$(COOMe)_2 \cdot Me.OH=1.3.5.2$	" .....	....	79	Jacobsen	A., 195, 289	36, 531
" .....	" .....	" .....	....	79	"	B., 13, 2051	40, 172
" .....	" .....	" .....	....	79	"	A., 206, 167	40, 431
"	$=1.3.4.6$	" .....	....	105; 108	Oppenheim & Pfaff	B., 8, 885	28, 1262
"	$=1.3.5.6$	" .....	....	128	Jacobsen	B., 13, 2051	40, 172
" .....	" .....	" .....	....	128	"	A., 206, 192	40, 431
" .....	" .....	" .....	....	129-130	Böttinger	B., 13, 2345	40, 278
Sinapic acid	$C_9H_{10}O \cdot (COOH)_2$	" .....	....	150-200	Babo & Hirschbrunn	A., 84, 19	v., 308
Primula camphor ....	....	" .....	a. 200	49	....	A., 185, 222	
Orcyldiglycollic acid	$C_6H_5Me(O \cdot CH_2 \cdot COOH)_2$	$C_{11}H_{12}O_6$	....	216-217	Saebach	J. p. [2], 21, 62	38, 393
α -Methylic hemipinate	$COOH.COOMe.(OMe)_2$	" .....	....	121-122	Wegscheider	M. C., 3, 362	42, 1207
"	$=1.2.3.4$	" .....	....	....	" .....	" .....	" .....
"	$+H_2O$	" .....	....	96-98	"	"	"
β -	$=2.1.3.4$	" .....	....	137-138	"	M. C., 3, 366	2 ii 2

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylic isohemipinate	COOH.COOMe.(OMe) ₂ =?	C ₁₁ H ₁₂ O ₆	....	167 u. c.	....	B., 10, 398	
Ethylic carbocomenate	C ₄ H ₂ O(COOEt)(COO.COOEt)	C ₁₂ H ₁₂ O ₇	....	87 u. c.	Drechsel and Möller	J. p. [2], 17, 164	34, 784
Diethylic meconate	C ₅ H ₂ O ₂ (OH)(COOEt) ₂	"	....	111.5	Mennel	J. p., 26, 453	44, 656
Diethylmeconic acid	....	"	....	abt. 110	How	A., 83, 359	iii., 861
" " "	....	"	....	110	Drechsel and Möller	J. p. [2], 17, 163	34, 784
Phenylisobutyl ketone	Ph.CO.CH ₂ .CHMe ₂	C ₁₁ H ₁₄ O	215-225	....	Fuaro	G. I. [1881], 274	40, 1032
" " "	"	"	225-226	....	Popoff	A., 161, 285; B., 5, 39	vii., 712; 25, 409
Butenyl methoxybenzene	OMe.(CH:CH.CH ₂ Me)=1.2	"	232-234	l. f. m.	Perkin	B., 11, 515	33, 214
" " "	" =1.4	"	....	17	"	....	35, 146
" " "	"	"	242-245	17	"	J. [1877], 383	32, 671
" " "	"	"	242-245	....	"	....	33, 215
Isobutenyl methoxybenzene	OMe.(CH:CHMe) ₂ =1.4	"	236-237	8.5-9	"	....	35, 146
Benzylic butyrate	CH ₃ .(CH ₂) ₂ .COO.CH ₂ Ph	C ₁₁ H ₁₄ O ₂	238-240	....	....	A., 193, 317	
" isobutyrate	CHMe ₂ .COOCH ₂ Ph	"	228	....	Hodgkinson	A., 201, 168	33, 496
Phenylpropylic acetate	C ₆ H ₅ .CH ₂ .CH ₂ .CH ₂ .OAc	"	244-245	l.-18	Rügheimer	A., 172, 128	27, 894
Butylic benzoate	C ₆ H ₅ .COO(CH ₂) ₃ CH ₃	"	247.32 c.	....	Linnemann	A., 161, 192; A., 162, 39	25, 396; vii., 203
Propylic phenylacetate	C ₆ H ₅ .CH ₂ .COO.Pr ^a	"	238 c.	Liquid	Hodgkinson	....	37, 483
Ethylic hydrocinnamate	C ₆ H ₅ .CH ₂ .CH ₂ .COOEt	"	244.8 (738.2)	....	Bruhl	A., 200, 192	36, 296
" " "	"	"	248.1	....	Weger	A., 221, 61	46, 11
" " "	"	"	247-249 c.	....	Erlenmeyer	J., 19, 367	vi., 469
" " "	"	"	245-250	Liquid	Merz and Weith	B., 10, 758	32, 617
" " "	"	"	245-250	Liquid	Sesemann	I. D. Zurich	28, 74
Phenylethylpropionic acid	Ph.CH ₂ .CHEt.COOH	"	272	l. f. m.	Baeyer and Jackson	B., 13, 118	38, 406
Phenylvaleric acid	Ph.CH ₂ .CH ₂ .CH ₂ .CH ₂ .COOH	"	....	58-59	" "	B., 13, 122	38, 407
Tolyl isobutyric acid (?)	Me.(CH ₂ .CHMe.COOH)=1.3	"	....	91-92	Kelbe	B., 16, 620	44, 796
Isobutylbenzoic acid	C ₆ H ₄ .C ₄ H ₉ .COOH=1.4	"	....	161	Pahl	B., 17, 1237	46, 1010
Acetyl propylphenol	C ₆ H ₄ Pr ^a .OAc=1.4	"	242.7-244 c. (760.65)	Liquid	Spica	B., 12, 295; G. I., 8, 406	36, 632
" isopropylphenol	C ₆ H ₄ .Pr ^β .OAc=1.4	"	244-244.5 (756.27)	....	Paternò and Spica	G. I., 6, 535; B., 10, 84	31, 593
Mesityl acetate	Me ₂ .(CH ₂ OAc)=1.3.5	"	228-231 (745)	Liquid	Wispek	B., 16, 1577	44, 1095
" " "	"	"	242 i. v.	Liquid	Robinet	C. R., 96, 500; B., 16, 965	44, 577
Ethylic xylate	C ₆ H ₃ .Me ₂ .COOEt=?	"	233	Liquid	Hirzel and Beilstein	B. S., 1, 345	v., 1062
" mesitylenate	" =1.3.5	"	241	s. 0.	Fittig	A., 147, 46	vi., 823
Homocuminic acid	....	"	....	52	Rossi	C. R., 52, 403; As., 1, 139; G. I., 9, 400	iii., 163; 38, 163
Cymene carboxylic acid	C ₆ H ₃ Me.Pr.COOH=1.4.?	"	....	63	Paternò and Spica	G. I., 9, 400	38, 163
Methyl engenol	C ₆ H ₃ .(OMe) ₂ .(CH:CHMe)	"	237-239	....	Græbe & Borgmann	A., 158, 282	24, 705
" " "	"	"	237-239	....	Church	B., 7, 1551	28, 116
" " "	"	"	244-245	....	Matsmoto	B., 11, 123	
" " "	"	"	255 u. c. =262.5 c.	....	Church	....	28, 115
Thymotic aldehyde	Pr ^a .Me.OH.CHO=1.3.4.6	"	....	133	Kobek	B., 16, 2096	46, 56
Ethylic phenoxypropionate	CH ₃ .CH(OPh).COOEt	C ₁₁ H ₁₄ O ₃	243-244	Liquid	Saarbach	J. p. [2], 21, 152	38, 393
" methylmandelate	Ph.CH(OMe).COOEt	"	248	....	Meyer and Boner	B., 14, 2391	42, 195
Phenylpropylglycollic acid	CPh(OH).Pr.COOH	"	....	158	Plöschl	B., 14, 1316	42, 515
Phenylhydroxypivalic acid	CPh(OH).(CMe ₂ COOH)	"	....	134	Fittig and Jayne	A., 216, 115	44, 471
Ethyltropic acid	Ph.CMe(OEt).COOH	"	....	59.5-62	Ladenburg and Rügheimer	B., 13, 2042; 14, 446	40, 171
α-Benzyl-β-oxybutyric acid	CH ₃ .CH(OH).CH(CH ₂ .C ₆ H ₅).COOH	"	152-155	....	Ehrlich	B., —; A., 187, 26	29, 369; 32, 439
Ethylic ethoxybenzoate	C ₆ H ₄ .OEt.COOEt=1.2	"	258-260 (732)	....	....	A., 197, 18	
" " "	"	"	251	....	Folsing	B., 17, 486	46, 897
" " "	"	"	160-165, sic; (260-265 ?)	l.-18	Göttig	B., 9, 1475	31, 313
" " "	" =1.3	"	263	....	Heintz	A., 153, 332	

[illegible]

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
From dragon's blood ....	....	$C_{11}H_{16}O$	214-215	....	Bötsch	M. C., 1, 613	42, 210
„ anethol.... ....	....	„	225-228	....	Landolph	C. R., 86, 601	34, 576
„ allyl alcohol	$C_2H_3(C_9H_{13})O_2$	$C_{11}H_{16}O_2$	195-205	....	Tollens	Z. C. [2], 7, 249	25, 998
Benzylidene diethylate	$C_6H_5.CH(OEt)_2$	„	222 c.	Liquid	Wicke	A., 102, 364	1., 578
Phenyl isopropylethylene glycol	$CHPh(OH).CHPr^{\beta}(OH)$	„	....	81-82	Fossek	M. C., 5, 119	46, 833
Diethylorcinol	$Me(OEt)_2=1.3.5 (?)$	„	240-250	....	De Luynes & Lionet	C. R., 65, 213	vi., 885
Thymotic alcohol	$Me.Pr^{\alpha}.OH.CH_2OH=1.4.3.6$	....	....	120-130	Kobek	B., 16, 2096	46, 56
Camphocarboxylic acid	$C_{10}H_{14}.OH.COOH$	$C_{11}H_{16}O_3$	....	118-119	Baubigny	Z. C. [2], 4, 482 and 647	vi., 386
„ „ ....	„	„	....	118-119	Santos-e-Silva	B., 6, 1092	27, 70
„ „ ....	„	„	....	123-124 u. c.	Kachler and Spitzer	B., 13, 1412 ; M. C., 3, 205	36, 892 ; 42, 865
Propyl dimethylpyrogallol	$Pr.(OMe)_2.OH$	„	285	Liquid	Hofmann	B., 8, 67 ; 11, 331	28, 569
Phoronic anhydride	$CMc.CO$ 	$C_{11}H_{16}O_4$	....	138	Pinner	B., 14, 1079	40, 797
Ethylic camphoronate	$C_8H_{11}O_3.COOEt$	$C_{11}H_{16}O_5$	302	Liquid	Kachler	A., 159, 281	vi., 238 ; 24, 1049
Pyrocholesteric acid....	....	„	....	108	Tappeiner	A., 194, 221	36, 388
Acrolein and acetyloxide	$C_3H_4O.2C_4H_6O_3$	$C_{11}H_{16}O_7$	180	Liquid	Geuthier	J.	vi., 24
Trimethylic acetyl citrate	$C_3H_4.OAc.(COOMe)_3$	$C_{11}H_{16}O_8$	280-282	....	Hanaus	B., 9, 1750	31, 456
Ethylic diacetomesoxalate	$C(OAc)_2(COOEt)_2$	„	....	145 p. d.	Petrieff	B., 11, 414	34, 490
Resinon ....	....	$C_{11}H_{18}O$	78	Liquid	Fremy	A., 15, 284	41, 167
Colophonone ....	....	„	97	Liquid	Schiel	A., 115, 96	1., 1087
Diethenylethylisopropylacetic acid	$C_4H_8.CPr^{\beta}Et.COOH$	$C_{11}H_{18}O_2$	270-280	....	Geuther, Frohlich, and Looss	A., 202, 324	38, 623
Undecolic acid	$C_{10}H_{17}.COOH$	„	....	59.5	Krafft	B., 11, 1414	34, 853
Borneol formate ....	....	„	225-230	....	Bruylants	B., 11, 455	....
Colophonon ....	....	„	97	Liquid	Schiel	A., 115, 96	41, 168
Ethylic acetisoamylidene acetate	$C_5H_9.CHAc.COOEt$	$C_{11}H_{18}O_3$	237-241	Liquid	Claisen & Matthews	A., 218, 170	46, 443
„ „	„	„	237-241	Liquid	Matthews	....	43, 202
Rangiformic acid ....	....	„	....	104-106	Paternò	G. I. [1882], 231 ; B., 15, 2242	42, 1084
Methylpropylallylene glycol-diacetate	$Pr^{\alpha}(OAc).CH.C(OAc):CHMe$ or $Pr^{\alpha}.CH:C(OAc).CH(OAc)Me$	$C_{11}H_{18}O_4$	....	68.5	Morris	....	41, 178
Ethylic acetylmesitonate	$CMe_2:CH.CMe(OAc).COOEt$	„	205-207	....	Pinner	B., 15, 579	42, 941
Methylcamphoric acid ....	....	....	....	abt. 68	Low	A. C., 38, 483	1., 732
Diethylic β -methylacetosuccinate	$COOEt.CHAc.CHMe.COOEt$	$C_{11}H_{18}O_5$	238	....	Bischoff	A., 206, 313	40, 412
„ β - „ „	„	„	257-259	....	....	A., 188, 227 ; 192 142	....
„ β - „ „	„	„	262-263	....	....	A., 216, 31	....
„ α - „ „	$COOEt.C_2H_2AcMe.COOEt$	„	254-256	....	....	A., 206, 329 ; 216, 35	....
„ α - „ „	„	„	263	Liquid	Kressner	A., 192, 135	34, 783
„ acetoglutarate	$COOEt.CHAc.CH_2.CH_2.COOEt$	„	271-272	....	Wislicenus and Limpach	A., 192, 128	„
Phoronic acid....	$CMc.COOH$	„	....	184 d.	Pinner	B., 14, 1078	40, 797
Diethylic methylic propenyl-tricarboxylate	$CH(COOEt)_2.CHMe.COOMe$	$C_{11}H_{18}O_6$	267	Liquid	Bischoff	A., 214, 53	44, 45
„ „ „	„	„	268	....	Bischoff & Emmert	B., 15, 1107	42, 1191
Triethylic ethenyltricarboxylate	$COOEt.CH_2.CH(COOEt)_2$	„	278	Liquid	Bischoff	A., 214, 38	44, 45
„ „ „	„	„	275-280 ; 172 (90)	Liquid	Conrad	B., 12, 752	36, 707

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diethylic succinolactate	EtO.C ₃ H ₄ O.O.C ₄ H ₄ O ₂ .OEt	C ₁₁ H ₁₈ O ₆	280	Liquid	Wurtz and Friedel	J., 14, 378	iii., 462
Triethylic desoxalate	C ₂ H ₃ O ₂ (COOEt) ₃	C ₁₁ H ₁₈ O ₈	....	85	Lowig	J. [1861], 605	v., 41
" " .....	....	"	....	85	Klein	J. p. [2], 20, 146	38, 37
Methyl borneol ....	....	C ₁₁ H ₂₀ O	194·5 c. (733)	....	Baubigny	Z. C. [1868], 299	
Undecylenic acid ....	....	C ₁₁ H ₂₀ O ₂	295 u. c. (760) p. d ; 200 (low pres- sure)	24·5	Becker	B., 11, 1412	34, 853
" " .....	....	"	198–200 (90)	24·5	Krafft	B., 10, 2035	34, 292
Acid from petroleum ....	....	"	258–261 (741)	....	Hell and Meidinge	B., 7, 1217	28, 248
" " " .....	....	"	250–260	....	" "	B., 10, 451	32, 432
Isoamylic acetoethylacetate....	CH ₃ AcEt.COOC ₅ H ₁₁	C ₁₁ H ₂₀ O ₃	233–236	Liquid	Conrad	A., 186, 231	32, 435
Heptylic acetoacetate	CH ₃ Ac.COOC ₇ H ₁₅	"	250–260	....	Venable	B., 13, 1649	40, 82
Diethylic diethylmalonate	CEt ₂ (COOEt) ₂	C ₁₁ H ₂₀ O ₄	223	Liquid	Conrad	A., 204, 138 ; B., 12, 749	36, 707
" "	"	"	230–230·5 c. (760); 195– 198 c. (330)	....	Perkin	....	45, 513
" isobutylmalonate	CHMe ₂ .CH ₂ .CH(COOEt) ₂	"	225	....	Conrad and Bischoff	B., 13, 600	38, 628
" "	"	"	225	....	Guthzeit	A., 209, 236	42, 39
" pimelate	C ₅ H ₁₀ (COOEt) ₂	"	185	Liquid	Marsh	A., 104, 125	iv., 646
" "	"	"	236–240	Liquid	Kachler	A., 169, 172	27, 155
Dimethylic azelaate	C ₇ H ₁₄ (COOMe) ₂	"	260 d.	....	....	Z. C. [1865], 298	
Methylic hydrogensebate	C ₈ H ₁₆ .COOH.COOMe	"	....	abt. 60	Neison	....	29, 317
Brassylic acid	C ₉ H ₁₈ (COOH) ₂	"	....	108·5	Hausknecht	A., 143, 48	vi., 367
Glycerol dibutyrate	C ₃ H ₅ (OH)(O.C ₄ H ₇ O) ₂	C ₁₁ H ₂₀ O ₅	320	b.—40	Berthelot	A. C. [3], 41, 264	i., 696
Acetonaloxyisobutyric acid....	CMe ₂ (O.CMe ₂ .COOH) ₂	C ₁₁ H ₂₀ O ₆	192–200	....	Willgerodt	B., 15, 2311	
Diacetodiethylpropylphycite	C ₃ H ₄ (OEt) ₂ (OAc) ₂	"	abt. 210	....	Carius	A., 134, 71	v., 895
Euodic aldehyde	C ₁₀ H ₂₁ .COH	C ₁₁ H ₂₂ O	213	s. 7	Williams	P. T. [1858], 1, 99	v., 133
Diamyl ketone (caprone)	CO(C ₃ H ₁₁) ₂	"	165	Liquid	Brazier & Gossleth	A., 75, 257	i., 744
" " "	"	"	220–221	....	Schmidt	B., 5, 602	vii., 251 ; 25, 892
" " "	"	"	222	s. 12	Limpricht	A., 108, 185	i., 698
" " "	CO(CH ₂ .CH ₂ .CH ₂ .CH ₂ Me) ₂	"	226·3 (740)	14·6	Lieben & Janecek	A., 187, 134	32, 880
Nonylmethyl ketone....	Me.CO.C ₉ H ₁₉	"	223–224	15–16	Gorup-Besanez and Grimm	Z. C., 13, 290 ; B., 3, 518 ; A., 157, 275	vii., 808 ; 24, 387
" "	"	"	224–225	....	" "	" "	" "
" "	"	"	225–226	15	Giesecke	Z. C., 6, 429	" "
" "	Me.CO.(CH ₂) ₃ .CH ₃	"	161 (100)	13	Krafft	B., 15, 1709	42, 1272
From oil of wine ....	....	"	218–219	....	....	J. p. [2], 23, 457	
Nonylic acetate	CH ₃ .COOC ₉ H ₁₉	C ₁₁ H ₂₂ O ₂	207–213	....	....	Z. C. [1870], 404	
" "	"	"	208–212	Liquid	Pelouze & Cahours	J. [1863], 529	iv., 134
Amylic caproate	C ₆ H ₁₁ .COO.C ₆ H ₁₁	"	211	Liquid	Brazier & Gossleth	J., 3, 400	i., 744
Isoamylic caproate	Pr ^β .(CH ₂) ₂ .COO.(CH ₂) ₂ .Pr ^β	"	215–220	....	....	A., 142, 18	
Ethylic nonylate	CHMe ₂ .(CH ₂) ₃ .CHMe.COOCe	"	213–215 c.	Liquid	Kullhem	A., 173, 328	vii., 898 ; 28, 354
" "	C ₈ H ₁₇ .COOEt	"	216–218	Liquid	Cahours	J., 3, 401	iv., 371
" " (pelargonate)	"	"	224	....	Delffs	J., 7, 26	
" " "	"	"	226–228 c.	....	Perkin	....	45, 503
" " "	CH ₃ .(CH ₂) ₇ .COOEt or Pr ^β .(CH ₂) ₈ .COOEt	"	227–228 (757)	Liquid	Franchimont and Zincké	A., 164, 338 ; B., 5, 19	vii., 898 ; 25, 301
Methylic caprate (iso) ...	C ₉ H ₁₉ .COOMe	"	223–224	Liquid	Grimm	A., 157, 264	24, 360 ; vii., 249
Undecylic acid	CH ₃ .(CH ₂) ₉ .COOH	"	212·5 (100)	28	Krafft	B., 15, 1687	42, 1272
" "	"	"	213 (100)	28·5	"	B., 12, 1664	38, 34
" "	"	"	228 (160)	28·5	"	B., 11, 2219	36, 307
" " (umbellulic)...	....	"	270–275 u. c. p. d. (760) ; 208–211 (100)	21–23	Stillmann & O'Neill	A. C. J., 4, 206	42, 1186
" "	(Me ₃ C) ₃ .CMe.COOH	"	226 c.	66–70	Butlerow	B., 12, 1482 ; J. R., 11, 203	38, 230

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diamylic carbonate	$(\text{CHMe}_2\text{CH}_2\text{CH}_2)_2\text{CO}_3$	$\text{C}_{11}\text{H}_{22}\text{O}_3$	224-225	Liquid	Medlock	J., 2, 430	i., 800 ; 1, 368
" "	"	"	226	....	Bruce	J., 5, 605	5, 132
" "	"	"	228-7	Liquid	Röse	A., 205, 232	40, 252
Ethylic ethylisomyloxyate	$\text{CEt}(\text{C}_5\text{H}_{11})(\text{OH}).\text{COOEt}$	"	224-225	Liquid	Frankland & Duppa	A., 142, 6; P. T. [1866], 309	iv., 276
" "	"	"	222-226	....	....	Z. C. [1866], 491	
Isoamyl diethoxalate	$\text{CEt}_2\text{OH}.\text{COO}.\text{C}_5\text{H}_{11}$	"	225	Liquid	Frankland & Duppa	P. T. [1866], 1309; J., 18, 380; A., 142, 15	iv., 274
Hendecetyl alcohol	$\text{Me}.\text{CH}(\text{OH}).\text{C}_9\text{H}_{19}$	$\text{C}_{11}\text{H}_{24}\text{O}$	228-229	Liquid	Giesecke	Z. C., 6, 431	vii., 808
? " ....	....	"	245-255	....	....	Z. C. [1870], 404	
Tetraethylpropylphycite	$\text{C}_3\text{H}_4(\text{OEt})_4$	$\text{C}_{11}\text{H}_{24}\text{O}_4$	150-160	Liquid	Carius	A., 134, 71	v., 895
From combustion of ether ....	....	$\text{C}_{11}\text{H}_{20}\text{O}_{21}$ (?)	....	51	Legler	A., 217, 385	44, 860
Erythrin ....	....	$\text{C}_{12}\text{H}_{16}\text{O}_6$	....	137	Hesse	....	iv., 641
Naphthoic anhydride	$\text{C}_{10}\text{H}_8\text{CO}.\text{O}.\text{CO}=\beta_1\beta_2$;	$\text{C}_{12}\text{H}_8\text{O}_3$	....	266	Cleve	B. S. [2], 26, 241	31, 208
" " ....	"	"	....	266	Behr and Van Dorp	A., 172, 267	27, 1168
Diphenylene oxide	$\text{C}_6\text{H}_4.\text{O}.\text{C}_6\text{H}_4=1.2; 1.2$	$\text{C}_{12}\text{H}_8\text{O}$	278-288	Solid	Græbe	B., 7, 397, 1629	27, 798; 28, 455
" "	"	"	275	80-81	Hofmeister	A., 159, 211	
" " ....	"	"	....	80	Lesimple	A., 138, 375	vii., 436
" " ....	"	"	....	80	Niederhäusern	B., 15, 1121	
" " ....	"	"	....	80-81	Goldschmidt and Herzig	M. C., 3, 133	42, 617
" "	"	"	280-283 u. c.	80-81	Goldschmidt and Schidt	W. A., 83, 7	40, 824
" "	" =1.4; 1.4	"	....	99	Goldschmidt and Herzig	M. C., 3, 133	42, 617
? " ....	....	$\text{C}_{12}\text{H}_8\text{O}_3$	....	209-211	Gabriel	B., 14, 927	40, 733
α -Naphthylglyoxylic acid	$\text{C}_{10}\text{H}_7\text{CO}.\text{COOH}$	$\text{C}_{12}\text{H}_8\text{O}_3$	....	113.5	Boessneck	B., 16, 640	44, 808
Benzofuril ....	....	"	....	41	E. Fischer	A., 211, 229	42, 500
Naphthalene dicarboxylic acid	$\text{C}_{10}\text{H}_6(\text{COOH})_2$	$\text{C}_{12}\text{H}_8\text{O}_4$	....	n. f. 240	Darmstadter and Wichelhaus	B., 2, 358; J. [1869], 477	vi., 852; vii., 428
" " ....	"	"	....	266	Behr and Van Dorp	B., 6, 60	26, 632; vii., 842
α- " " ....	"	"	....	m. a. 300 d.	Ebert and Merz	B., 9, 607	30, 409
β- " " ....	"	"	....	m. a. 300 d.	"	"	"
" "	" = $\beta_1\beta_2$;	"	d. 100 forming anhydride	....	Behr and Van Dorp	A., 172, 265	27, 1168
Luteolin ....	....	$\text{C}_{12}\text{H}_8\text{O}_5$	....	a. 320	....	A., 100, 180; Z. C. [1866], 602	
Diphenyl oxide	$(\text{C}_6\text{H}_5)_2\text{O}$	$\text{C}_{12}\text{H}_{10}\text{O}$	....	27-28	Richter	J. p. [2], 28, 273	46, 326
" "	"	"	246	28	Hoffmeister	B., 3, 747; A., 159, 200	vii., 941
" "	"	"	248	28	"	Z. C. [2], 7, 24	24, 124
" "	"	"	249	....	Gladstone & Tribe	....	41, 6
" "	"	"	252-254	28	Merz and Weith	B., 14, 188	
" "	"	"	253	....	Niederhäusern	B., 15, 1124	
Hydroxydiphenyl	$\text{C}_6\text{H}_5.\text{C}_6\text{H}_4.\text{OH}=1.?$	"	....	Solid	Osten	B., 7, 173	27, 581
" "	" =1.4	"	....	151-152	....	A., 209, 348	
" "	" =1.4 (?)	"	305-308	164-165	Latschinoff	B., 6, 194; J. R., 5, 52	26, 750
? " ....	....	"	294-296	Liquid	Schwarz	B., 14, 1524	
Dihydroxydiphenyl (di-phenol)	$(\text{C}_6\text{H}_4.\text{OH})_2=1.2; 1.2$	$\text{C}_{12}\text{H}_{10}\text{O}_2$	....	98	Hodgkinson and Matthews	B., 16, 1103	43, 169
α - " "	" =1.2; 1.?	"	310-330 (150)	123	Barth and Schreder	B., 11, 1334	36, 64
δ - " "	" =1.2; 1.4	"	....	156-158	Lincke	J. p. [2], 8, 46	27, 373
δ- " " ....	"	"	....	156-158	Griess	P. T., 154, 719	29, 932
δ- " " ....	"	"	....	156-158	Herzig	B., 13, 2233; W. A., 82, 500	
δ- " " ....	"	"	....	156-158	Schmidt & Schultz	B., 11, 1754	36, 252
δ - " "	"	"	342	161	"	B., 12, 497	36, 651
δ - " "	"	"	345	161	"	B., 12, 498	36, 653

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
δ -Dihydroxydiphenyl (di-phenol)	$(C_6H_4.OH)_2=1.2; 1.4$	$C_{12}H_{10}O_2$	342	....	Schultz, Schmidt, and Strasser	A., 207, 348	40, 912
β - " "	" =1.4; ?	"	....	190	Barth and Schreder	B., 11, 1336	36, 66
γ - " "	" =1.4; 1.4	"	m. a. 360	272	Schmidt & Schultz	B., 12, 493	36, 651
γ- " "	" "	"	....	272	" "	" "	36, 653
γ - " "	" "	"	m. a. 360	272	" "	A., 207, 334	40, 910
γ- " "	" "	"	....	272	" "	" "	" "
" "	" = ?	"	340-350	....	Barth	Z. C. [2], 7, 18	24, 122
" "	$C_6H_5.C_6H_3.(OH)_2= ?$	"	....	269-270	Dœbner	B., 9, 130	29, 932
" "	" = ?	"	....	269-270	Engelhardt and Latschinoff	Z. C. [1871], 261	"
" "	? = ?	"	....	270	Magatti	B., 12, 1863	38, 250
α -Acetoxynaphthalene	$C_{10}H_7.OAc$	"	....	Liquid	Schäffer	B., 2, 131; Z. C. [2], 5, 395	vi., 859
α- " " " "	"	"	....	Liquid	Liebermann	A., 183, 225	31, 607
α- " " " "	"	"	....	Liquid	Watson Smith	....	32, 563
α- " " " "	"	"	....	44	Schäffer	A., 152, 288	"
α- " " " "	"	"	....	46	....	A., 209, 150; 208, 248	"
α- " " " "	"	"	....	49	Tassinari	B., 13, 2420; G. I., 10, 491	40, 280
β- " " " "	"	"	....	60	Schäffer	B., 2, 131; Z. C. [2], 5, 395	vi., 859
β- " " " "	"	"	....	60	Liebermann	A., 183, 225	31, 607
β- " " " "	"	"	....	60	Watson Smith	....	32, 563
β- " " " "	"	"	....	70	Schäffer	A., 152, 288; 209, 150	"
Methylic β -naphthoate	$C_{10}H_7.COOMe$	"	abt. 290	77	Vieth	A., 180, 319	30, 86
α -Naphthyl acetic acid	$C_{10}H_7.CH_2.COOH$	"	....	131	Bœssneck	B., 16, 641	44, 808
Guajenquinone	....	....	....	121-122	....	M. C., 1, 605	"
Benzofuroin	$CHPh(OH).CO.C_4H_3O$ or $Ph.CO.CH(OH).C_4H_3O$	$C_{12}H_{10}O_3$	....	137-139	E. Fischer	B., 13, 1339; A., 211, 228	36, 798; 42, 500
α -Ethoxynaphthoquinone	$C_{10}H_5.OEt : O_2$	$C_{12}H_{10}O_3$	....	126-127	Baltzer	B., 14, 1900	42, 204
Tetrahydronaphthalene carboxylic anhydride	$C_6H_4 \begin{matrix} \diagup CH_2.CH.CO \\ | \\ CH_2.CH.CO \end{matrix} \diagdown O=1.2$	"	....	184	Baeyer and Perkin	B., 17, 450	46, 907
? acid	....	"	....	114-115	Paal	B., 16, 2869	46, 599
? " "	$C_{12}H_{12}O_3 ?$	"	....	179; 169	Weltner	B., 17, 70	46, 746
Trihydroxydiphenyl....	$C_6H_4(OH).C_6H_3.(OH)_2$ =1.2; 1.2.(4 ?) =1.2; 1.2.(5 ?)	"	....	180	Hodgkinson and Matthews	B., 16, 1103	43, 167
" " " "	"	"	....	204-205	" "	" "	" "
Benzofurilic acid	....	$C_{12}H_{10}O_4$	....	108	E. Fischer	A., 211, 231	42, 500
Piperic acid	$CH_2 : O_2 : C_6H_3.C_4H_4.COOH$	"	sb. 200	150	Babo and Keller	....	iv., 653
" " " "	"	"	....	216-217; a. f. 212-213	Fittig and Mielck	A., 152, 27	vi., 946
" " " "	"	"	....	216-217	Lorenz	B., 14, 788	40, 728
Acetyl β -methylumbelliferone	$C_6H_3(OAc)CMe : CH.CO.O$	"	....	150	Pechmann and Duisberg	B., 16, 2119	46, 66
Homoacetoxycoumarin	$C_6H_2Me(OAc)(CH)_2.CO.O$	"	....	126	Tiemann and Helkenberg	B., 12, 1002	36, 720
Tetrahydroxydiphenyl	$C_{12}H_8(OH)_4$	"	....	84	Barth and Schreder	B., 11, 1336	36, 65
" "	$[C_6H_3(OH)_2]_2=(1.3.5)_2$	"	....	n. f. 250	" "	B., 12, 503	36, 634
Resoquinone	....	"	....	abt. 90 d.	Nietzki	B., 12, 1982	38, 247
Sappanin	....	"	....	201-202 u. c.	Barth and Schreder	B., 12, 506	"
Baphiin	....	( " )_n	....	abt. 200	Anderson	J. [1876], 896	30, 583
Acetyl furoin....	$C_{10}H_7O_4.Ac$	$C_{12}H_{10}O_5$	....	75	Fischer	B., 13, 1336	38, 798
" " " "	"	"	....	76-77	E. Fischer	A., 211, 221	42, 499
From chloral hydrate sorcinol	$C_5H_4O.(OAc)_2$	"	....	120	Michael and Comey	A. C. J., 5, 349	46, 598
Hexahydroxy diphenyl	$C_{12}H_4(OH)_6$	$C_{12}H_{10}O_6$	....	70	Cobenzl	M. C., 1, 670	42, 405
γ- " " " "	"	"	....	d. 230	Barth & Goldschmidt	B., 12, 1249	36, 931
β- " " " "	"	"	....	d. 250	" "	B., 12, 1244	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diaceto- α -homoprotocatechuic acid	$(\text{CH}_2.\text{COOH})(\text{OAc})_2=1.3.4$	$\text{C}_{12}\text{H}_{12}\text{O}_6$	....	89-90	Nagai	B., 11, 658	34, 579
Ethylic diacetoxycomenate	$\text{C}_6\text{H}_2(\text{OAc})_2\text{COOEt}$	$\text{C}_{12}\text{H}_{12}\text{O}_8$	....	75	Reibstein	J. p. [2], 24, 287	42, 197
Physodin ....	....	"	....	125	Gerding	N.Br. Arch., 87, 1	iv., 635
Pyrogalloltriglycollic acid	$\text{C}_6\text{H}_3(\text{OCH}_2.\text{COOH})_3=1.2.4$	$\text{C}_{12}\text{H}_{12}\text{O}_9$	....	198	Giacosa	J. p. [2], 19, 396	38, 930
Dimethyldihydronaphthol	$\text{C}_{10}\text{H}_7.\text{Me}_2.\text{OH}$	$\text{C}_{12}\text{H}_{14}\text{O}$	....	113	Cannizzaro	G. I., 13, 385	46, 328
Ethylphenylacetyleneacetate	$\text{C}_6\text{H}_5.\text{CH} : \text{CEt} (\text{OAc})$; or, Et.CH : CPh(OAc)	$\text{C}_{12}\text{H}_{14}\text{O}_2$	223-230	Liquid	Morgan	J. [1876], 398	29, 163
Propylic cinnamate	$\text{C}_6\text{H}_5.\text{CH} : \text{CH}.\text{COOPr}^\alpha$	"	283-284	Liquid	Anschütz and Kin-nicutt	B., 11, 1220	34, 981
" " ....	....	"	285.1	Liquid	Weger	A., 221, 61	46, 11
Diethylphthalylketone	$\text{C}_6\text{H}_4.(\text{COEt})_2=1.2$	"	....	52	....	A., 143, 262	
Cumenylacrylic acid	$\text{C}_6\text{H}_4\text{Pr}^\alpha.\text{CH} : \text{CH}.\text{COOH}$	"	....	29	Baeyer and Jackson	B., 13, 115	38, 407
" "	$\text{C}_6\text{H}_4\text{Pr}.\text{CH} : \text{CH}.\text{COOH}$	"	....	157-158	Perkin	J. [1877], 790	31, 397
Phenolhydrate	$2\text{Ph}(\text{OH}) + \text{H}_2\text{O}$	$\text{C}_{12}\text{H}_{14}\text{O}_3$	....	16	Calvert	B. S. [2], 35, 379	40, 723
Isobutylic benzoylformate	$\text{Ph.CO.CO.OCH}_2.\text{CHMe}$	"	170-174 (38)	....	Claisen	B., 12, 629	36, 648
Ethylic allyloxybenzoic acid	$\text{C}_6\text{H}_4.\text{OC}_3\text{H}_5.\text{COOEt}=1.3$	"	283-285	Crystalline	Scichilone	G. I., 12, 449 ; B., 16, 796	44, 336
" " "	" =1.4	"	260	109	"	"	"
Methylic α -methoxyphenylcrotonate	$\text{OMe}(\text{C}_6\text{H}_4.\text{COOMe})=1.2$	"	274-275	Liquid	Perkin	....	39, 430
" β - "	" "	"	286	Liquid	"	....	39, 435
β -Ethoxyphenylcrotonic acid	$\text{OEt}(\text{C}_6\text{H}_4.\text{COOH})=1.2$	"	....	133	"	....	39, 439
α -Methoxyphenylangelic acid	$\text{OMe}(\text{C}_6\text{H}_6.\text{COOH})=1.2$	"	....	88	"	....	39, 436
β- " "	" "	"	....	105	"	....	39, 437
β- " "	" "	"	....	abt. 105	"	J. [1877], 792	31, 417
" " "	" =1.4	"	....	123-124	"	....	31, 413
Eugenolacetate	$(\text{CH} : \text{CH}.\text{CH}_3)\text{OCH}_3.\text{OAc}$ =1.3.4 ; or 1.4.3	"	270	Liquid	Tiemann	B., 9, 53	29, 711
" " "	" "	"	....	30-31	Tiemann and Nagai	B., 10, 202	32, 339
Thymodialdehyde	$\text{Me.Pr.OH}(\text{CHO})_2$ =1.4.3.6.(2 or 5)	"	....	80	Kobek	B., 16, 2096	46, 57
Phenylglycol diacetate	$\text{Ph.CH}(\text{OAc}).\text{CH}_2(\text{OAc})$	$\text{C}_{12}\text{H}_{14}\text{O}_4$	....	Liquid	Wachendorff and Zincké	B., 10, 1004	32, 614
" " "	" "	"	274 (755); 183-185 (25)	....	....	A., 216, 295	
Ethylic acetylmandelate	$\text{Ph.CH}(\text{OAc}).\text{COOEt}$	"	....	73.5-74	....	A., 139, 302	
" benzolactate	$\text{CH}_3.\text{CH}(\text{OBz}).\text{COOEt}$	"	288 c.	Liquid	Wislicenus	A., 133, 272	vi., 772
Diethyllic phthalate	$(\text{COOEt})_2=1.2$	"	288 u. c. ; 295 c.	Liquid	Græbe and Born	J. [1866], 411 ; A., 142, 344	vi., 942
" " "	" "	"	294 c. (734)	Liquid	Græbe	B., 16, 861	
Diethyllic isophthalate	" =1.3	"	285	s. 0	Storrs and Fittig	A., 153, 284	vii., 978
" terephthalate	" =1.4	"	....	44	Beilstein	A., 121, 89 ; 132, 269	v., 727
" " "	" "	"	....	44	Grimaux	A. C. [4], 26, 331	25, 817
Dipropionyl quinol	$\text{C}_6\text{H}_4(\text{O.CO.C}_3\text{H}_5)_2=1.4$	"	....	113	Hesse	A., 200, 246	38, 317
Phthalyl diacetate	$\text{C}_6\text{H}_4(\text{CH}_2\text{OAc})_2=1.2$	"	....	37	Hessert	B., 12, 647	36, 634
Terephthalyl diacetate	" =1.4	"	....	47	Grimaux	A., 155, 342 ; A. C. [4], 26, 331	25, 817
Dimethyllic xylenate	$\text{C}_6\text{H}_4(\text{CH}_2.\text{COOMe})_2=1.4$	"	....	56.5-57	Klippert	B., 9, 17, 68	31, 468
Eugenoxiacetic acid	$\text{C}_6\text{H}_3(\text{OMe})(\text{CH}_2 : \text{CH}.\text{CH}_3)$ ($\text{O.CH}_2\text{COOH}$)	"	....	80-81	Sarrbach	J. p. [2], 21, 158	38, 393
Methylic dimethylcaffeate	$\text{C}_6\text{H}_3.(\text{CH} : \text{CH}.\text{COOMe})$ (OMe) $_2=1.3.4$	"	....	64	Tiemann and Will	B., 14, 959	40, 740
Methylic dimethoxyumbellate	$\text{C}_6\text{H}_3(\text{CH} : \text{CH}.\text{COOMe})$ (OMe) $_2=1.2.4$	"	....	87	" "	B., 15, 2080	44, 200
Methylhomoferulic acid	$\text{C}_6\text{H}_3(\text{CH} : \text{CMe}.\text{COOH})$ (OMe) $_2$	"	....	140-141	Tiemann and Kraaz	B., 15, 2071	44, 198
Diacetoxyxylene	$\text{C}_6\text{H}_2\text{Me}_2(\text{OAc})_2$	"	....	45	Pfaff	B., 16, 1135	44, 918
Methyleugetic acid	$\text{C}_6\text{H}_2(\text{OMe})_2.\text{C}_3\text{H}_5.\text{COOH}$	"	....	180	Wassermann	C. R., 88, 1206	36, 790
Piperhydrionic acid ....	....	"	....	96	Buri	A., 216, 178	44, 485
Apiol ....	....	"	300	30	Gerichten	B., 9, 1478	31, 326

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diethyl hydroxyisophthalate	$(\text{COOEt})_2.\text{OH} \equiv 1.3.2$	$\text{C}_{12}\text{H}_{14}\text{O}_6$	....	Liquid	O. Miller	A., 208, 247	42, 405
" "	" $\equiv 1.3.4$	"	....	52	Jacobsen	B., 11, 380	34, 583
" "	" "	"	....	52	Ost	J. p. [2], 14, 108	30, 522
" "	" $\equiv 1.3.5$	"	....	103	Heine	B., 13, 496	38, 550
" "	" "	"	....	104	....	M. C., 1, 439 ; J. p. [2], 25, 515	
Ethyl opianate	$\text{C}_9\text{H}_9\text{O}_3.\text{COOEt}$	"	....	88	Matthiessen & Foster	16, 345	iv., 206
" " ....	"	"	....	92	Wöhler	A., 44, 126	"
" " ....	"	"	....	92.2	....	A., 50, 5 ; 86, 194	
Dimethyl rhamnetin	$\text{C}_{10}\text{H}_8\text{O}_5.\text{Me}_2$	"	....	156-157	Liebermann and Hörmann	B., 11, 1622	36, 272
Trimethoxyesculetic acid	$\text{C}_6\text{H}_2(\text{CH}:\text{CH}.\text{COOH})(\text{OMe})_3$	"	....	168	Tiemann and Will	B., 15, 2082	44, 200
Methoxybenzaldehyde + acetic anhydride	$\text{Ac}_2\text{O} + (\text{C}_6\text{H}_4.\text{OMe}.\text{CHO}) \equiv 1.2$	"	....	75	....	A., 146, 372	
Picrotoxin	$\text{C}_9\text{H}_{10}\text{O}_4$ ?	"	....	170	Blyth	....	33, 317
"	$\text{C}_{15}\text{H}_{16}\text{O}_6$ ?	"	....	192	Apjohn	C. N., 33, 265	30, 533
"	$\text{C}_{30}\text{H}_{34}\text{O}_{13}$ ?	"	....	199-200	Paternò & Ogliaro	G. I., 6, 531 ; B., 12, 685	31, 719
" ....	"	"	....	200	" "	B., 14, 539	
"	$\text{C}_{36}\text{H}_{40}\text{O}_{16}$ ?	"	....	199-200	Schmidt and Lowenhardt	B., 14, 818	40, 740
" ....	"	"	....	201	Barth and Kretschy	W. A., 81, 7	
Diethyl phenyldioxy-carbonate	$\text{C}_6\text{H}_4(\text{O}.\text{COOEt})_2 \equiv 1.4$	$\text{C}_{12}\text{H}_{14}\text{O}_6$	....	101	Bender	B., 13, 697	40, 48
Diethyl quinolhydrocarboxylate	....	"	....	133-133.5	Hermann	A., 211, 327	42, 714
" " "	....	"	....	133	Duisberg	B., 16, 135	
" " "	....	"	....	133	Wedel	A., 219, 71	46, 834
Monethyl hemipinate ....	....	"	....	132.2	....	A., 86, 195	
" " ....	....	"	....	141-142	....	M. C., 3, 370	
Dimethoxydiacetoxybenzene	$\text{C}_6\text{H}_2(\text{OMe})_2(\text{OAc})_2$	"	....	128 ; 132-133	Hofmann	B., 11, 333	
Tetric acid	$3\text{C}_4\text{H}_4\text{O}_2.\text{H}_2\text{O}$	$\text{C}_{12}\text{H}_{14}\text{O}_7$	262	189	Pawlow	B., 16, 486	44, 730
" "	"	"	268-280	189	Demarçay	C. R., 88, 126	36, 457
Ethyl carbogallate ....	....	"	....	116.5	....	J. p. [2], 17, 164	
Oxytetric acid	$3(\text{C}_4\text{H}_4\text{O}_3).\text{H}_2\text{O}$	$\text{C}_{12}\text{H}_{14}\text{O}_{10}$	....	203-204	Demarçay	C. R., 88, 289	36, 458
" "	"	"	abt. 280 <i>pd.</i>	203-204	"	B. S. [2], 33, 575	40, 255
Diethyl acetophenone	$\text{Ph}.\text{CO}.\text{CH}(\text{Et})_2$	$\text{C}_{12}\text{H}_{16}\text{O}$	229-231	Liquid	Baeyer and Perkin	B., 16, 2131	46, 63
" "	"	"	229-231 (710)	l. 0	Perkin	....	45, 185
Amylic benzoate	$\text{C}_6\text{H}_5.\text{COO}(\text{CHMe}.\text{CHMe}_2)$	$\text{C}_{12}\text{H}_{16}\text{O}_2$	abt. 240	Liquid	Wurtz	A. C. [4], 3, 137	vi., 113
" "	$\text{C}_6\text{H}_5.\text{COO}(\text{C}_6\text{H}_{11})$	"	260.7 (745.6)	Liquid	Kopp	A., 94, 311	i., 553
" "	"	"	252-254	....	Rieckher	J., 1, 699	
" "	"	"	261	....	Troost	G. J. C., 1879	
Isobutyl phenylacetate	$\text{C}_6\text{H}_5.\text{CH}_2.\text{COO}.\text{CH}_2.\text{CHMe}_2$	"	147 c.	Liquid	Hodgkinson	....	37, 485
Propyl phenylpropionate	$\text{Ph}.\text{C}_3\text{H}_7.\text{COOPr}^a$	"	262.1	....	Weger	A., 221, 61	46, 11
Butylacetoxybenzene	$\text{C}_6\text{H}_4.\text{C}_4\text{H}_9.\text{OAc}$	"	245	Liquid	Studer	B., 14, 2187	42, 176
Methyl isobutylbenzoate	$\text{C}_6\text{H}_4.\text{C}_4\text{H}_9.\text{COOMe} \equiv 1.4$	"	247	....	Pahl	B., 17, 1232	46, 1010
Ethyl cuminate	$\text{C}_6\text{H}_4.\text{Pr}.\text{COOEt}$	"	240	Liquid	Gerhardt & Cahours	A., 38, 81	ii., 181
Hydrocumenyl acrylic acid....	$\text{C}_6\text{H}_4.\text{Pr}(\text{CH}_2.\text{CH}_2.\text{COOH})$	"	....	70	Perkin	J., 1877, 791	31, 400
Thymol acetate	$\text{Pr}.\text{Me}.\text{OAc} = ?$	"	a. 236	Liquid	Czumpelik	B., 3, 483	vii., 420
" "	" $\equiv 1.3$	"	239-241 (743)	Liquid	Mazzara	B., 16, 243 ; G. I. [1882], 333	42, 1199
" "	" ?	"	244-245	Liquid	Febve	C. R., 92, 1290	42, 524
" " (natural)	$\text{Pr}^a.\text{Me}.\text{OAc} = ?$	"	244.7	....	Paternò	G. I. [1875], 13 ; B., 8, 71	28, 638
" " (from cymene)	" "	"	245.8	....	"	"	"
Ethyl eugenate (ethyl eugenol)	$(\text{CH}:\text{CHMe}.\text{OMe}.\text{OEt} = ?$	"	240	....	Cahours	A., 158, 284 ; Z. C. [1866], 466	vii., 494 ; 24, 705
" " "	" "	"	abt. 240	Liquid	....	A., 108, 324	ii., 604
" " "	" "	"	251	....	Gräbe & Borgmann	A., 158, 282	vii., 494 ; 24, 705
" " "	" "	"	251 u.c.	....	Church	....	28, 116
" " "	" $\equiv 1.3.4$; or 1.4.3	"	252-254	....	Wassermann	A., 179, 375	29, 706

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl eugenate (ethyl eugenol)	polymer	$C_{12}H_{16}O_2$	....	125	Wassermann	A., 179, 376	29, 706
Isobutyltoluic acid	$Me.C_4H_9.COOH=1.2$	"	....	140	Effront	B., 17, 419	46, 900
Methyl thymotic aldehyde	$C_6H_2.Me.Pr^a.OMe.CHO$ $=1.4.3.6$	"	270	Liquid	Kobek	B., 16, 2096	46, 56
Thymoöl ....	....	"	235 pd.	48	Lallemand	A. C., 49, 160	v., 792
Amylic salicylate	$OH.(COOC_6H_{11})=1.2$	$C_{12}H_{16}O_3$	270	....	Brühl	B., 12, 197	36, 499
" "	" "	"	270	Liquid	Drion	A., 92, 513	v., 166
Ethyl oxy cuminate	$COOEt.OH.Pr=1.3.4$	"	....	73-75	Barth	B., 11, 1575	36, 158
Ethoxycuminic acid	$COOH.OEt.Pr=1.3.4$	"	....	140	Lipmann & Lange	B., 13, 1662	40, 276
Thymol glycollic acid	$Me.Pr^a.(O.CH_2.COOH)$ $=1.4.5$	"	....	147-148	Spica	G. I., 10, 340	38, 888
" " " ....	" "	"	....	148	Saarsbach	J. p. [2], 21, 159	38, 393
Carvacrol glycollic acid	" " $=1.4.6$	"	....	149	Spica	G. I., 10, 340	38, 889
Methylthymotic acid	$Me.Pr^a.OMe.COOH=1.4.3.6$	"	....	137	Kobek	B., 16, 2096	46, 56
Acetocerulignol	$C_9H_{10}.OMe.OAc$	"	265 pd.	Crystalline	Pastrovich	M. C., 4, 191	44, 1006
Asarone ....	....	"	296	59	Rizza and Butlerow	B., 17, 1159	46, 1159
Ethyl cantharate	$CH_2.O.CO$ $H_4.C_6H_4.CH.COOEt$ $C_6H_3(CH_2.CHMe.COOH)$ $(OMe)_2$	$C_{12}H_{16}O_4$	abt. 300	....	Piccard	B., 11, 2122	36, 271
Methoxyhydrohomoferulic acid	....	"	....	58-59	Tiemann and Kraaz	B., 15, 2072	44, 198
Amylic gallate	$C_6H_2(OH)_3.COOC_5H_{11}$	$C_{12}H_{16}O_6$	....	139	Ernst and Zwenger	A., 159, 27	vii., 539 ; 24, 822
Diethyl succinylsuccinate	$CH_2.CO.CH.COOEt$ $CH_2.CO.CH.COOEt$	$C_{12}H_{16}O_6$	....	126-127	Hermann	B., 8, 1039	29, 371
" " "	....	"	....	127	Duisberg	B., 16, 134	
" " "	....	"	....	128	Remsen	B., 8, 1409	29, 564
" " "	....	"	....	133	Fehling	A., 49, 186	
" " "	$C_6H_5O_2(COOEt)_2$	"	....	156	Hermann	A., 211, 306	42, 713
Phenol glucoside	$C_6H_5(OPh)(OH)_4.CHO$	"	....	171-172	Michael	C. R., 89, 355	36, 1038
Erythrite orsellinate (picroerythrin)	....	$C_{12}H_{16}O_7$	....	158	....	A.	
Arbutin ....	....	"	....	141-143 ; 162	Schiff	B., 14, 2561	
" ....	....	"	....	165-166	"	G. I., 11, 99	40, 610
" ....	....	"	....	a. f. 165-166	"	"	"
" ....	....	"	....	166-167	"	B., 14, 304	40, 439
"	$O:CH(CH.OH)_4.CH_2O.C_6H_4.OH$	"	....	168	Strecker	....	44, 347
" ....	....	"	....	168-169	Michael	B., 14, 2099	
" ....	....	"	....	170	Zwenger and Himmelmann	A., 129, 203	vi., 190
" ....	....	"	....	187	Schiff	B., 15, 1841	44, 60
Triacetyl cellulose	$C_6H_7O_2(OAc)_3$	$C_{12}H_{16}O_8$	....	232	Franchimont	C. R., 92, 1053	40, 709
Acetyl erythrodextrin	$C_6H_7Ac_3O_6$	"	....	180	Herzfeld	B., 13, 267	38, 620
" achrodextrin ....	"	"	....	180	"	"	"
Diethyl diacetyltrioryxmate	$COOEt.C(OAc)_2.CO.COOEt$	$C_{12}H_{16}O_9$	....	48	Tanatar	B., 13, 1387	38, 875
Isobutyl ethoxybenzene	$C_6H_4.OEt.(CH_2.CHMe_2)$	$C_{12}H_{18}O$	234-236	....	Liebmann	B., 14, 1843	42, 171
" "	"	"	241-242 c.	....	"	B., 15, 1991	44, 59
Ethyl thymol	$Me.Pr.OEt=?$	"	222	Liquid	....	Z. C. [1865], 532 ; [1869], 43	vi., 1090
" "	" " $=1.4.6$	"	228 (656-58)	....	Paternò and Canoneri	G. I., 9, 455	38, 247
" "	$Me.Pr^a.OEt=1.3.?$	"	227-2-229-2 (753-2)	Liquid	Spica	G. I., 12, 543 ; B., 16, 792	44, 460
Xylitone (xylite oil) ....	....	"	251-252	....	Pinner	B., 15, 589	42, 942
" " " ....	....	"	a. 200	....	....	P. A.	i., 29
Dipropyl resorcinol	$C_6H_4(OPr)_2=1.3$	$C_{12}H_{18}O_2$	251	Liquid	Karief	B., 13, 1677	40, 269
Thymoöl ....	....	"	290	145	Lallemand	A. C., 49, 160	v., 793
Masopin ....	....	"	....	155	Genth	A., 46, 124	iii., 856 ; 30, 425

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Acetyl camphor ....	....	$C_{12}H_{18}O_2$	227-230	....	Baubigny	J., 19, 624	
Anthemol acetate ....	....	"	234-236	....	....	A., 195, 105	
Ethylc diallylacetate	$CAc(CH_2CH:CH_2)_2COOEt$	$C_{12}H_{18}O_3$	239-241	Liquid	Wolff	B., 10, 1956; A., 201, 47	34, 293
Triethylpyrogallol	$C_6H_3(OEt)_3=1.2.4$	"	....	39	Hofmann	B., 11, 800	34, 870
" ....	" "	"	....	39	Will and Jung	B., 17, 1089	46, 1143
Oxycamphor acetate ....	....	"	273.5 c.	69	Schrötter	M. C. [1881], 227	42, 66
Ethoxycamphoric anhydride	$C_8H_{13}(OEt).CO.O.CO$	$C_{12}H_{18}O_4$	....	63	Wreden	Z. C. [2], 7, 97; A., 163, 335	24, 549; 25, 896
" "	"	"	....	63	Kuchler	Z. C., 72, 264	vii., 236
Cascarillin ....	....	"	....	205	C. and E. Mylius	B., 6, 1052	
Diethylc diacetosuccinate	$COOEt.CHAc.CHAc.COOEt$	$C_{12}H_{18}O_6$	....	77	Ruegheimer	B., 7, 892	29, 367
" "	"	"	....	78-79	Harrow	A., 201, 145	33, 427
Triethylc phenaconate	$C_3H_3(COOEt)_3$	"	225	Liquid	Carius	A.	vi., 905
" aconitate (aconate)	"	"	236	Liquid	Crasso	A. C. [3], 1, 311; J. [1871], 597	24, 1047; vii., 349
" " "	"	"	236	Liquid	Gerhardt	A., 34, 59	i., 55
" " "	"	"	250-253 (250)	....	Conen	B., 12, 1655	
" " "	$COOEt.CH:C(COOEt)CH_2COOEt$	"	270-275	Liquid	Mercadante	G. I., 1, 248	24, 1048, vii., 349
Triethylc trimethylene tri-carboxylate	$COOEt.CH.CH_2.C(COOEt)_2$	"	276	Liquid	Conrad & Guthzeit	B., 17, 1185	46, 992
Diethylc diacetotartarate (inactive)	$C_2H_2(OAc)_2(COOEt)_2$	$C_{12}H_{18}O_8$	....	48	Tanatar	B., 13, 1387	
Diethylc diacetoracemate	"	"	298 d.	50.5	Perkin	As., 5, 286	v., 693; 20, 147
" diacetodextro tar-tarate	$COOEt.CH(OAc).CH(OAc).COOEt$	"	288.5 c.	63.5	....	As., 5, 285; A., 129, 188	
" " "	" "	"	291-292	66.5	Anschutz	B., 14, 2790	42, 831
" " "	" "	"	291-292	66.5	Pictet	B., 15, 2243	
" " "	$C_2H_2(OAc)_2(COOEt)_2$	"	294-298 p. d.	67	Perkin	As., 5, 286	v., 693; 20, 147
Eucalyptol ....	....	$C_{12}H_{20}O$	175	....	Cloez	A., 154, 372; A. P. [3], 5, 293	vii., 493; 29, 244
Ivaol	$C_{24}H_{40}O_2$	"	170-210	....	Planta-Reichenau	A., 155, 145	vii., 20
Ethylcamphor	$C_{10}H_{16}EtO$	"	226-229; 226-231	Liquid	Baubigny	Z. C. [1866], 409; [1868] 298; J., 19, 624	vi., 388
Matico-camphor ....	....	"	....	94	Kügler	B., 16, 2841	46, 611
From methylethylketone ....	....	"	248-253	Liquid	Schramm	B., 16, 1581	44, 1080
" wormseed oil ....	....	"	174-175	...	Völckel	J., 6, 513	
" mesityloxide ....	....	"	213-217	..	....	A., 180, 8	
Acetate of $C_{10}H_{18}O$	From oil of tansy	$C_{12}H_{20}O_2$	abt. 220	....	Brylants	J. Ph. [4], 26, 393	34, 158
Camphylic acetate ....	....	"	227	24	Montgolfier	A. C. [5], 14, 50	34, 894
Acetate of $C_{10}H_{18}O$	From coriander oil	"	234	....	Grosser	B., 14, 2493	
Acid from pœonia moutan ....	....	" (?)	....	45	Jagi	A. P. [3], 13, 335	36, 306
From manufacture of phorone	....	"	310-320	....	Pinner	B., 15, 590	42, 942
Allylglyceryl ether	$C_3H_5(OC_3H_5)_3$	$C_{12}H_{20}O_3$	232	Liquid	Berthelot and De Luca	A. C. [3], 43, 257; A., 100, 361	i., 143
Diisobutylic fumarate	$COO(CH_2Pr^{\beta}).CH:CH.COO(CH_2Pr^{\beta})$	$C_{12}H_{20}O_4$	265-270(760); 170 (160)	Liquid	Purdie	....	39, 354
Valeral+ benzoic anhydride	$C_5H_{10}O.C_7H_{10}O_3$	"	264	111	Kolbe and Guthrie	A., 109, 296	v., 974
Ethyl camphoric acid ....	....	"	196	....	Malaguti	A. C. [2], 64, 164	
Ethylc paracamphorate ....	....	"	270-275	Liquid	Chautard	C. R., 56, 698	vi., 390
Conylene diacetate	$C_8H_{14}(OAc)_2$	"	225	....	Wertheim	W. A. B., 47 [2], 491	vi., 490
Diethylc β -ethylacetosuc-cinate	$COOEt.CHAc.CHEt.COOEt$	$C_{12}H_{20}O_5$	262	Liquid	Clowes	B., 8, 1208	29, 565
" "	"	"	263	Liquid	Thorne	....	39, 337
" α - "	$COOEt.CAcEt.CH_2COOEt$	"	263-265	Liquid	Huggenberg	B., 8, 1209	29, 565
" "	"	"	263-265	Liquid	"	A., 192, 146	34, 782

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diethyl α - β -dimethylaceto-succinate	COOEt.CMe \bar{A} c.CHMe. COOEt	C ₁₂ H ₂₀ O ₆	270-272	Liquid	Hardmuth	A., 192, 142	34, 782
" α -methylacetoglu-tarate	COOEt(CH ₂) ₂ .CMe \bar{A} c. COOEt	"	280-281	....	Wislicenus and Limpach	A., 192, 133	34, 784
Dialdane diacetate ....	....	"	158-160 (20)	....	....	C. R., 92, 1371	
Hexylglycerol triacetate	CH ₂ O \bar{A} c.CHO \bar{A} c.CH ₂ .CH ₂ . CH(OAc)Me	C ₁₂ H ₂₀ O ₆	270-280(760); 192-196(100)	Liquid	Markownikoff	B., 13, 1843	40, 146
" " (prim. and sec.)	C ₆ H ₁₁ (OAc) ₃	"	280-285	....	....	J. R. [1881], 353	
" "	C ₃ H ₃ MeEt(OAc) ₃	"	270 (745.6); 153.8-155.8 (21)	....	....	M. C., 4, 42	
Diacetoxy-butylic acetoxf-butyrate	CHMe(OAc).CH ₂ .COO.CH ₂ . CH ₂ .CH(OAc)Me	"	275 (760); 176 (15)	Liquid	Wurtz	C. R., 97, 1525	46, 579
Ethyl tricarballylate	C ₃ H ₅ .(COOEt) ₃	"	295-305	Liquid	Simpson	P. R. S.	v., 880
Triethyl propenyltricarboxylate	(COOEt) ₃ .CH.CHMe.COOEt	"	270 p. d.(760); 178-180 (25)	Liquid	Bischoff	B., 13, 2165; A., 214, 53	40, 156; 44, 45
Triethyl citrate	C ₃ H ₄ .OH.(COOEt) ₃	C ₁₂ H ₂₀ O ₇	261 (300)	Liquid	Conen	B., 12, 1653	36, 36
" " ....	....	"	280	Liquid	....	....	i., 1001
" " ....	....	"	283	....	Malaguti	A., 21, 267	
" "	C ₃ H ₄ .OH.(COOEt) ₃	"	283 u. c.	....	Claus	B., 8, 867	
Hydroxytetric acid	3C ₄ H ₆ O ₃ .H ₂ O	C ₁₂ H ₂₀ O ₁₀	....	111	Demarçay	C. R., 88, 289	36, 459
Inuloid ....	....	"	....	130-135	Popp	A., 156, 190	vii., 670
Hexylene oxide	(C ₆ H ₁₁) ₂ O	C ₁₂ H ₂₂ O	116-118	....	Destrem	B., 16, 229	
Di (diallyl) oxide	"	"	180	Liquid	Wurtz	A. C. [4], 3, 129	vi., 93
Mesityl oxide....	"	"	abt. 206	Liquid	Beyer	A., 140, 297	vi., 822
Ethyl borneol ....	....	"	202.5	....	Baubigny	Z. C. [1868], 481	
?-Ketone ....	....	"	217-219	Liquid	Pawloff	B., 8, 766; A., 187, 104	29, 895; 32, 733
From isobutaldehyde ....	....	C ₁₂ H ₂₂ O ₂	154-157	Liquid	Perkin	....	43, 93
" " ....	....	"	154	....	Urech	B., 12, 192	36, 520
Dipropylallylcarbinol acetate	(CH ₂ :CH.CH ₂) ₂ .Pr ₂ C.OAc	"	210 (751 r.)	....	A. and P. Saytzeff	A., 196, 110; B., 11, 1939	36, 136
Menthyl acetate	C ₁₀ H ₁₈ .OAc	"	222-224	....	Oppenheim	A., 120, 351	iii., 881; 15, 26
Methylether of petroleum acid	....	"	236-240	....	Hill and Medinger	B., 7, 1218	
Ethyl dipropylaceto acetate	CACPr ₂ .COOEt	C ₁₂ H ₂₂ O ₃	235-236	Liquid	Burton	A. C. J., 3, 385	42, 599
" β -hexylacetacetate	CHAc(C ₆ H ₁₃).COOEt	"	247-249	....	Lundahl	B., 16, 789	
Acid from isobutaldehyde ....	....	"	245-255	l. — 10	Perkin	....	43, 92
Xylite naphtha ....	....	"	110-120	....	Schweizer and Weidmann	J. p., 23, 14	i., 29
Terpin acetate	C ₁₀ H ₁₈ (OH)(OAc)	"	140-150 (20)	....	Oppenheim	A., 129, 158	v., 923
Octylene diacetate	C ₈ H ₁₆ (OAc) ₂	C ₁₂ H ₂₂ O ₄	240-245	....	Wurtz	A., 128, 231	iv., 173
" "	"	"	245-250	....	Clermont	J., 17, 517	"
Ethylene diisovalerate ....	....	"	abt. 255	....	Lourenço	A., 114, 124	
Diisoamylic oxalate	(COOC ₆ H ₁₁) ₂	"	262	Liquid	Balard	A. C. [3], 12, 311	iv., 268
" "	"	"	260	....	Cahours	....
" "	"	"	265	....	Delffs	A., 130, 200	
Diisobutylic succinate	(CH ₂ .COO.CH ₂ Pr ^{β}) ₂	"	264.75- 265.75 c.	....	Perkin	....	45, 519
Diethyl tetramethyl succinate	COOEt.CMe ₂ .CMe ₂ .COOEt.	"	230-231 u.c.	....	Hell and Wittekind	B., 7, 321	27, 683
" diethyl succinate....	COOEt.C ₂ H ₅ Et ₂ .COOEt	"	233-235	....	Hell	B., 6, 31	26, 495
" suberate	C ₆ H ₁₂ (COOEt) ₂	"	230	Liquid	Bromeis	A., 35, 89	v., 450
" "	"	"	260	....	Laurent	A. C. [2], 66, 157	"
" "	"	"	280-282	....	Gautter and Hell	B., 13, 1170	38, 875
" " ....	....	"	282-286 c. (760); 251- 253 c. (320)	....	Perkin	....	45, 517
Dimethyl sebate	C ₈ H ₁₆ (COOMe) ₂	"	285	25.5	Carlet	C. R., 37, 130; J. [1853], 430	v., 214; 29, 315
" "	"	"	287-289 pd.; 288 c.	38	Neison	J. [1876], 576	29, 316

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl hydrogen sebate	$C_8H_{16}.COOEt.CO_2H$	$C_{12}H_{22}O_4$	....	s. 10	Neison	....	29, 320
" ?	....	"	250-253	....	....	J. R., 12, 460	
Georetinic acid	$C_{24}H_{42}O_7$ ?	"	....	82	....	J. [1852], 647	
" ?	....	$C_{12}H_{22}O_5$	270	....	....	Z. C. [1867], 708	
Diisobutyl dextrotartarate	$[CH(OH).COO.CH_2.Pr^2]$	$C_{12}H_{22}O_6$	323-325(760); 197 (23)	68	Anschutz & Pictet	B., 14, 2790; 15, 2242	42, 831
Tetrethylene diacetate	$(AcO.C_2H_4.O.C_2H_4)_2O$	$C_{12}H_{22}O_7$	a. 300	Liquid	Wurtz	A. C. [3], 69, 338	ii., 568
" (sugar)....	$C_6H_{12}O_4$?	$C_{12}H_{22}O_8$ ?	....	105	Liebermann & Giesel	B., 16, 935	
Quercite ether	$(C_6H_{10}O_4).(C_6H_{12}O_5)$	$C_{12}H_{22}O_9$	....	210	Prunier	C. R., 84, 184	31, 450
" anhydride ....	"	"	....	228-230	"	A. C. [5], 15, 5	36, 240
Melezitose	+4H ₂ O	$C_{12}H_{22}O_{11}$	....	b. 140	Berthelot	A. C. [3], 55, 282	iii., 868
"	+H ₂ O	"	....	140	Villiers	B. S., 27, 98; C. R., 84, 35	31, 451
Saccharose (cane sugar) ....	....	"	....	160	Brisson	....	v., 470
" " ....	....	"	....	160	Quincke	P. A., 138, 141	vii., 243
" " ....	....	"	....	160	Berzelius		
" " ....	....	"	....	180	Peligot	A., 30, 71	
Lactose (milk sugar)....	....	"	....	204	Bouchadat	C. R., 72, 462	24, 915
" " ....	....	"	....	203.5	Lieben	G. J. C., 1856	
Myucose (trehalose) ....	....	"	....	100	Mitcherlich	A., 106, 15	
" "	+2H ₂ O	"	....	109	....	....	iii., 1068
" " ....	....	"	....	120	....	A. C. [3], 55, 272	
Decyl methyl ketone	$Me.CO.(CH_2)_9.Me$	$C_{12}H_{24}O$	246-247(760); 177.5 (100)	21	Krafft	B., 15, 1708	42, 1272
Methylcaprone	$C_6H_{11}.CO.C_6H_{10}.CH_3$	"	144	....	Popoff	B., 5, 597	25, 892
" "	"	"	152	....	Schorlemmer	Chem. Carb. Comp.	"
" "	"	"	155-166	....	Schmidt	B., 5, 597	"
Lauric aldehyde ....	....	"	184-185(100); 142-143(22)	44.5	Krafft	B., 13, 1414	38, 867
" " (?) ....	....	"	232	Liquid	Williams	P. T. [1858], 1, 99	v., 133
From bark of "Bois Piquant"	....	"	....	285	Heckel and Schlagdenhauffen	C. R., 98, 996	46, 848
Decylic acetate	$CH_3(CH_2)_8.CH_2.OAc$	$C_{12}H_{24}O_2$	125-126 (15)	Liquid	Krafft	B., 16, 1717	44, 1075
" "	$C_{10}H_{21}.OAc$	"	228-235	....	....	Z. C. [1870], 404	
" "	"	"	219.5	....	....	J., 1864, 338	
Octylic butyrate	$C_8H_7.COOC_8H_{17}$	"	244-245	....	....	A., 166, 81	
Hexylic caproate	$CH_3.(CH_2)_4.COOC(CH_2)_5CH_3$	"	245.6 c. (761.17)	Liquid	Franchimont and Zincké	A., 163, 197; B., 4, 824	vii., 646; 25, 61
" "	$CHMePr^a.COOC_6H_{13}$	"	223.5	....	....	M. C., 4, 36	
Ethyl caprate (rutylate)	$C_9H_{19}.COOEt$	"	243-245	....	Fischer	A., 118, 314	
" " (iso)....	"	"	243	....	Grimm	A., 157, 264	24, 360
" " "	"	"	243	Liquid	Fischer & Rowney	....	vii., 249
Methylic undecylate....	$CMe(CMe_3)_2.COOMe$	"	217-220 u.c.	Liquid	Butlerow	B., 12, 1484; J. R., 11, 203	38, 230
" " (umbel- lulate)	$C_{10}H_{21}.COOMe$	"	244-246	....	Stillmann & O'Neill	A. C. J., 4, 206	42, 1186
Duodecyl acid (lauric)	$CH_3(CH_2)_{10}.COOH$	"	225 (100)	43.6	Krafft	B., 13, 1415; 15, 1708	42, 1272
" " "	"	"	225.5 (100)	43.5	"	B., 12, 1666	38, 34
" " "	"	"	227.5 c. (100); 176 c. (15)	....	"	B., 16, 1718	
" " "	$C_{11}H_{23}.COOH$	"	....	43	Oudemans	J. P., 81, 367	i., 1063
" " " ....	"	"	....	43.6	Heintz	P. A., 92; J., 7, 457	iii., 475
" " " ....	"	"	....	43	Sthamer	A., 53, 393	"
" " " ....	"	"	....	42-43	Marsson	A., 41, 333	"
" " " ....	"	"	....	42-43	Gorgey	A., 66, 305	"
" " " ....	"	"	....	43.8	Schlippe	A., 105, 14	"
" " " ....	"	"	....	45	Müller	J. p., 58, 469	"
" " (laurostERIC)	"	"	....	s. 44	Reichardt	A. P. [3], 10, 339	32, 518
Acid, from axin ....	....	"	....	42	Hoppe	J. p., 30, 102	v., 1087
Acid, from cocoa butter	cf. B 16, 1104	"	....	57.5	Kingzett	B., 10, 2243	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hordeinic acid ....	....	$C_{12}H_{24}O_2$	....	60	....	J. [1855], 513	
?	....	"	abt. 200	....	Lieben	A., 178, 1	29, 59
Triisobutyric aldehyde ....	....	$C_{12}H_{24}O_3$	....	59-60	Barbaglia	B., 5, 1052	vii., 228; 26, 379
" "	....	"	....	60	"	B., 6, 1064	27, 47
" "	....	"	194	59-60	Markownikoff	B., 6, 1176	27, 144
" "	cf. B 13, 590	"	....	60	Urech	B., 12, 1748	
Diisoamyloxalic acid....	$C(C_6H_{11})_2(OH).COOH$	"	....	122	Frankland & Duppa	P.R.S.; A., 142, 14	iv., 277
Hexyl oxide (β)	$(C_6H_{13})_2O$	$C_{12}H_{26}O$	203.5-208.5 (751)	....	Wanklyn and Erl-enmeyer	J., 16, 521	iii., 154
Heptylisoamyloxide....	$C_7C_{15}.O.C_6H_{11}$	"	220-221	....	Wills	J., 6, 510	iii., 147; 6, 316
Duodecyl alcohol	$CH_3.(CH_2)_{10}.CH_2OH$	"	143.5 (15)	24	Krafft	B., 16, 1719	44, 1076
" "	....	"	265-275	....	....	Z. C. [1870], 404	
Diisoamylacetal	$CH_3.CH(OC_6H_{11})_2$	$C_{12}H_{26}O_2$	194-196	....	Backmann	A., 218, 38	44, 727
"	"	"	210.8 c.	....	Alsberg	J., 17, 485	
Isoamylethylvaleral	$C_4H_9.CH(OEt)(OC_6H_{11})$	"	200-210	....	....	Z. C. [1866], 465	
Methyl- β -butyl pinacone	$[CHMeEt.CMe(OH)]_2$	"	248-250	....	Wislicenus	A., 219, 307	44, 966
Ethylpropyl pinacone	$CEt(C_3H_7)OH.C(C_3H_7)OH$	"	252-255	l. — 20	Coninck	C. R., 82, 92	29, 694
" "	"	"	abt. 255	Liquid	Oechsner	B. S. [2], 24, 99	30, 67
" "	"	"	254-255	....	....	B. S., 25, 10	
Pinacolin "	$CMe_2(OH).CMe_2.CMe_2.CMe_2$ OH	"	....	69	Friedel and Silva	C. R., 76, 226	vii., 982; 26, 489
From reduction of $C_{12}H_{22}O_2$	Alcohol	"	270-275	l. — 10	Perkin	....	43, 94
Ethylidene oxyisobutyl alcoholate	$C_4H_8(OC_4H_9)_2O$	$C_{12}H_{26}O_3$	174	....	Laatsch	A., 218, 13	44, 788
Amylic dipropyl ortho-formate	$CH(OPr)_2(OC_6H_{11})$	"	222-230	....	Pinner	B., 16, 1647	44, 1089
Propyl dibutyl "	$CH(OC_4H_9)_2(OPr)$	"	207-208	....	"	"	"
" " "	"	"	212-214	Liquid	"	"	"
Triethyldiglycerol	$(C_3H_5)_2O(OEt)_3(OH)$	$C_{12}H_{26}O_6$	288-290	Liquid	Reboul and Lorenço	A., 119, 235; C. R., 52, 401; A. C. [3], 67, 310	ii., 894
Hexethylene glycol ....	....	$C_{12}H_{26}O_7$	325 (25)	....	Lorenço	A. C. [3], 67, 281	
Glyceric aldehyde	$C_3H_6O_3$ or $(C_3H_6O_3)_4.H_2O$	$C_{12}H_{26}O_{13}$	130-135	71-72	Renard	C. R., 82, 562	30, 64
Sorbite ...	$2C_6H_{14}O_6 + H_2O$	$C_{12}H_{30}O_{13}$	....	102	Boussingault	C. R., 74, 939	vii., 1093; 25, 480
β -Picroerythrin ....	....	$C_{13}H_8O_6$	....	115-116	Lamparter	A., 134, 243	iv., 641
Diphenylene ketone	$C_6H_4.C_6H_4.CO=?$	$C_{13}H_8O$	336-338	....	Græbe	B., 7, 1630	28, 455
" " ....	" "	"	....	81-82	Barbier	A. C. [5], 7, 472; C. R., 79, 1151	31, 72; 28, 456
" "	" = 1.2; 1.2	"	....	82	Friedländer	B., 10, 127	32, 336
" " ....	" "	"	....	82	"	B., 10, 536	32, 493
" " ....	" "	"	....	83-84	Anschtütz & Schultz	B., 9, 1402	31, 210
" " ....	" = ?	"	....	83-84	Wittenberg and Meyer	B., 16, 502	44, 804
" "	" = 1.2; 1.2	"	a. 300	83.5-84	Fittig & Ostmeyer	A., 166, 373	vii., 435; 26, 893
" " (see $C_{13}H_{10}O$)	" = ?	"	310-312	99	Salzmann and Wichelhaus	B., 10, 1400	34, 79
Diphenylene ketone oxide	$C_6H_4.O.C_6H_4.CO=?$	$C_{13}H_8O_2$	....	91	Richter	J. p. [2], 23, 350	42, 618
" " "	" = 1.2; 1.?	"	....	173-174	"	J. p. [2], 28, 273	48, 324
" " " ....	" "	"	....	173.5	Perkin	B., 16, 340	43, 35
" " " ....	" = ?	"	....	173	Niederhäusern	B., 15, 1124	
" " " ....	" "	"	....	173	Græbe and Ebrard	B., 15, 1679	
" " "	" "	"	a. 300	173-174	Merz and Weith	B., 14, 192	40, 264
" " " ....	" "	"	....	170-171	Salzmann and Wichelhaus	B., 10, 1400	34, 79
" " " ....	" "	"	....	173-174	Behr and V. Dorp	B., 7, 399	vii., 902; 27, 798
Hydroxydiphenylene ketone	$C_6H_5(OH).C_6H_4.CO$	"	....	91	Richter	J. p. [2], 28, 273	46, 325

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
β -Methylene diphenylene quinone (fluorene quinone)	....	$C_{13}H_8O_2$	....	181-182	Barbier	A. C. [5], 7, 500	31, 72
α- " " " "	....	"	....	abt. 270	"	C. R., 79, 1151	28, 456
δ- " " " "	....	"	....	276-277 u. c. =288 c.	Carnelley	....	37, 711
δ- " " " "	....	"	....	277-278 u. c.	"	....	"
γ- " " " "	....	"	....	280-281 c.	"	....	37, 709
β -Naphthacoumarin	$C_{10}H_6 \cdot CH : CH \cdot CO \cdot O$	"	....	118	Kauffmann	B., 16, 685	44, 1136
Salicyl resorcinol oxide	$C_6H_3(OH) \cdot O \cdot C_6H_4 \cdot CO$	$C_{13}H_8O_3$	....	146-147	Michael	A. C. J., 5, 81	46, 311
Euxanthone	$C_6H_3(OH) \cdot O \cdot C_6H_3(OH) \cdot CO$	$C_{13}H_8O_4$	....	232	Græbe and Ebrard	B., 15, 1675	42, 1301
Dihydroxydiphenylene ketone oxide	$C_{13}H_6O_2(OH)_2$	"	....	330	Græbe	B., 16, 863	
Hexahydroxydiphenylene ketone	$C_{12}H_2(OH)_6 : CO$	$C_{13}H_8O_7$	d. 250 w. m.	Very high	Barth and Goldschmidt	B., 12, 1248	
Diphenyl ketone (benzophenone)	$CO \cdot (C_6H_5)_2$	$C_{13}H_{10}O$	....	26-26.5	Zincké	B., 4, 299	24, 508
" " "	"	"	300	26-26.5	"	B., 4, 577	24, 832 ; vii., 176
" " "	"	"	300	26-26.5	"	B., 4, 510	24, 689
" " "	"	"	170 (15)	....	Angeblis and Anschütz	B., 17, 165	46, 753
" " "	"	"	295	....	Græbe	B., 7, 1630	28, 455
" " "	"	"	306	....	Crafts	B. S., 39, 196, 277	44, 843
" " "	"	"	296.7-297 u. c. (730)	46	Crafts and Ador	B., 10, 1856	
" " "	"	"	315	46	....	....	i., 562
" " "	"	"	....	47-48	Goldstein	B. S. [2], 35, 108	40, 423
" " "	"	"	295 (741)	48-48.5	Linnemann	A., 133, 1	iv., 478
" " "	"	"	....	48	Behr	B., 5, 278	25, 472
" " "	"	"	300	48-49	Zincké	B., 4, 578	24, 832 ; vii., 176
" " "	"	"	300	49	Grucarevic & Merz	B., 6, 1243	
" " "	"	"	....	49	Kollarits and Merz	B., 6, 537	
" " " (?)	"	"	280	97	Gladstone & Tribe	....	41, 7
Methylenediphenylene oxide	$C_6H_4 \cdot O \cdot C_6H_4 \cdot CH_2 = (1.2)_2$	"	300-301 u. c. ; 315 c.	98.5	Merz and Weith	B., 14, 191	40, 264
" " "	" " "	"	....	98.5	Richter	J. p. [2], 28, 273	46, 324
" " "	" " "	"	310-312	99	Salzmann and Wichelhaus	B., 10, 1400 ; cf. B., 15, 1676	
" " "	" " "	"	....	98.5	Niederhäusern	B., 15, 1124	
Fluorenic alcohol	$C_6H_4 \cdot C_6H_4 \cdot CH(OH)$	"	....	153	Barbier	A. C. [5], 7, 504 ; C. R., 80, 1396	31, 73 ; 30, 77
" " "....	"	"	....	151-152	Friedländer	B., 10, 535	32, 493
Phenylic benzoate	$C_6H_5 \cdot COOPh$	$C_{13}H_{10}O_2$	314 c.	68-69	Guareschi	G. I., 3, 398	27, 262
" " "....	"	"	....	65	E. Fischer	B., 8, 590	28, 1035
" " "....	"	"	....	66	List and Limpricht	A., 90, 191	i., 553
Benzoyl phenol	$C_6H_4 \cdot OH \cdot Bz = 1.4$	"	....	134	Döbner and Stackmann	B., 9, 1919 ; 10, 1970	32, 327
" " "....	" " "	"	....	134	Döbner and Weiss	B., 14, 1840	42, 177
" " "....	"	"	....	134	Rennie	....	41, 228
" " "....	"	"	....	134	Döbner	A., 210, 249	42, 508
Phenylbenzoic acid	$C_6H_4 \cdot Ph \cdot COOH = 1.2$	"	....	110	Schmitz	A., 193, 120	36, 164
" " "....	" " "	"	....	110-111	Richter	J. p. [2], 28, 273	46, 326
" " "....	" " "	"	....	110-111	Fittig	B., 6, 167	26, 750
" " "....	" " "	"	....	110-111	Fittig & Ostmeyer	A., 166, 374	26, 893
" " "....	" = 1.3	"	....	160	Schmidt & Schultz	B., 11, 1756	36, 163
" " "....	" " "	"	....	160-161	Barth and Schreder	M. C., 3, 808	44, 468
" " "....	" = 1.4	"	....	209-211	Carnelley	....	29, 18
" " "....	" " "	"	....	208-212	"	....	"

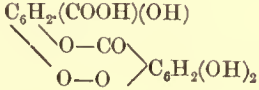
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Phenylbenzoic acid	$C_6H_4 \cdot Ph \cdot COOH = 1.4$	$C_{13}H_{10}O_2$	....	211-213	Carnelley	....	29, 18
" " ....	" "	"	....	216 u.c.	"	....	37, 713
" " ....	" "	"	....	217	"	B., 8, 1467	29, 18
" " ....	" "	"	....	216-220	"	....	37, 707
" " ....	" "	"	....	216-217	Meyer and Rosicki	B., 11, 2173	36, 466
" " ....	" "	"	....	216-217	Barth and Schreder	M. C., 3, 800	44, 468
" " ....	" "	"	....	216-217	Schultz	B., 6, 417; A., 174, 213	26, 888
" " ....	" "	"	....	218-219	Döbner	A., 172, 112	27, 892
Naphthylacrylic acid	$C_{10}H_7 \cdot CH : CH \cdot COOH$	"	....	205-207	Lugli	G. I. [1881], 393	42, 206
?	....	"	....	170	Lunge and Stein- kauler	B., 14, 2204	
Diphenylic carbonate	$CO(OPh)_2$	$C_{13}H_{10}O_3$	....	78	Kemp	Z. C. [2], 6, 205	vi., 918
" " ....	"	"	....	88	....	J. p. [2], 27, 41	
" "	"	"	301-302	....	....	J. p. [2], 27, 42	
Phenoxybenzoic acid	$C_6H_4 \cdot OPh \cdot COOH = 1.4$	"	....	159.5	Klepl	J. p. 28, 193	46, 447
Phenyl hydroxybenzoate	$C_6H_4 \cdot OH \cdot COOPh = 1.4$	"	....	176 (b.p. ?)	"	"	46, 448
γ -Dihydroxybenzophenone	$CO(C_6H_4 \cdot OH)_2 = 1.2; 1.4$	"	....	143-144	Michael	B., 14, 656; A. C. J., 5, 81	40, 592; 46, 311
β -	" $= (1.4)_2$	"	....	161-162	Städel and Sauer	B., 13, 836; A., 218, 339	38, 646; 44, 992
α-	" "	"	....	206	Baeyer & Burkhardt	B., 11, 1300	34, 886
α-	" "	"	....	205-207	Liebermann	B., 11, 1435	
α-	" "	"	....	210	Städel and Gail	B., 11, 746; A., 218, 339	34, 672; 44, 991
α-	" "	"	....	210	Städel and Sauer	B., 11, 1748	36, 242
α-	" "	"	....	210	Caro and Græbe	B., 11, 1348	
α-	" "	"	....	210	Gail	A., 194, 335	36, 326
Benzoresorcinol	$C_6H_3(OH)_2 \cdot Bz = 1.3?$	"	....	144	Döbner and Stack- mann	B., 11, 2271	36, 320
" " ....	" "	"	....	144	Döbner	A., 210, 258	42, 508
Benzopyrocatechol	" $= 1.2?$	"	....	145	"	A., 210, 262	"
o - β -Naphthacoumaric acid	$C_{10}H_6 \cdot OH(CH : CH \cdot COOH)$	"	....	170	Kauffmann	B., 16, 686	44, 1136
Trihydroxybenzophenone	$C_6H_4(OH) \cdot CO \cdot C_6H_3(OH)_2$ $= 1.2; ? 1.3$	$C_{13}H_{10}O_4$	....	133-134	Michael	B., 14, 658; A. C. J., 5, 81	40, 592; 46, 311
Dihydroxyphenylbenzoic acid	$C_6H_4(OH) \cdot C_6H_3(OH)(COOH)$ $= 1.4; 1.4.6$	"	....	270	Schmidt & Schultz	A., 207, 346	40, 911
Morintannic acid (maclurin)	....	$C_{13}H_{10}O_6$	....	200	....	....	iii., 1049
Diacetylæsculetin	$C_9H_4O_4 \cdot Ac_2$	"	....	133-134	Liebermann and Knietzsch	B., 13, 1591	
Sordidin (impure)	$C_{16}H_{18}O_7?$	$C_{13}H_{10}O_8$	....	180	Paternò	30, 203	32, 780
" " ....	....	"	....	210	"	G. I., 7, 281	"
Benzylphenyl oxide	$Ph \cdot O \cdot CH_2Ph$	$C_{13}H_{12}O$	286-287	38-39	Sintenis	B., 4, 699	24, 909
" " " " ....	"	"	....	39	Städel	A., 217, 43	44, 585
Diphenyl carbinol (benzhydrol)	$(C_6H_5)_2 \cdot CH \cdot OH$	"	....	65	Friedel and Balsahn	B. S. [2], 33, 337	38, 559
" " " " " " ....	"	"	....	68	Zagoumenny	B. S. [2], 26, 452	31, 459
" " " " " "	"	"	297-298 (748)	167.5-168	Linnemann	A. 133, 6	iv., 478
Benzylphenol	$Ph \cdot CH_2 \cdot C_6H_4 \cdot OH = 1.4$	"	314-316	....	Liebmann	B., 14, 1844	42, 171
" " " " " "	" "	"	325-330	84	"	B., 15, 152	42, 727
" " " " " "	" "	"	320-322	80-81	Perkin and Hodg- kinson	....	37, 723
" " " " " "	" "	"	175-180 (4-5)	84	Paternò	B., 5, 288; G. I., 2, 1	25, 702
" " " " " " ....	" "	"	....	84	Paternò and Fileti	G. I., 3, 121	
" " " " " " ....	" "	"	....	84	Rennie	....	41, 34
Diphenoxymethane	$CH_2(OPh)_2$	$C_{13}H_{12}O_2$	294	Liquid	Henry	A. C. [5], 30, 266	46, 718
Benzyl quinol	$C_6H_4 \cdot OH \cdot (O \cdot CH_2Ph) = 1.4$	"	....	122	Pellizzari	G. I., 13, 501	46, 437
" " " " " " ....	" "	"	....	121-122.5	Schiff	G. I., 13, 538	46, 432
Benzhydrylphenol	$CHPh(OH) \cdot C_6H_4 \cdot OH = 1.4$	"	161	Döbner and Stack- mann	B., 10, 1971	34, 321
" " " " " "	" "	"	161	Döbner	A., 210, 253	42, 508

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Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyllic mesitate (uvitate)	$C_5H_3.Me.(COOEt)_2=1.3.5$	$C_{13}H_{16}O_4$	....	35	Fittig & Furtenbach	A., 147, 301 ; Z. C. [2], 4, 1	vi., 822
Methylmethylhomofurulate	$(CH : CMe.COOMe)(OMe)_2=1.3.4$	"	....	65-66	Tiemann and Kraaz	B., 15, 2070	44, 198
Ethoxybenzylidene diacetate	$C_6H_4.OEt.CH(OAc)_2=1.2$	$C_{13}H_{16}O_5$	....	88-89	....	A., 146, 372	
Methyllic trimethoxyæsculate	$C_6H_2(CH : CH.COOMe)(OMe)_2$	"	....	109	Tiemann and Will	B., 15, 2082	44, 200
Felicic acid ....	....	"	....	161	Luck	J. [1851], 558	ii., 646
Diethyllic ethylmeconate	$C_5H_2O_2(OEt)(COOEt)_2$	$C_{13}H_{18}O_7$	....	61	Ost	J. p. [2], 23, 439	42, 601
" " ....	"	"	....	67	Mennel	J. p., 26, 454	44, 656
Helicin ....	....	"	....	174	Schiff	B., 14, 304	40, 439
" " ....	....	"	....	175	Piria	A. C. [3], 14, 287	iii., 139
" "	$C_5H_6(OC_2H_4.CHO)(OH)_4$ CHO	"	....	175	Michael	C. R., 89, 355	36, 1038
Phenyllic ænanthylate	$C_6H_{13}.COOPh$	$C_{13}H_{18}O_2$	275-280	Liquid	Cahours	C. R., 38, 257	iv., 178
Hexylic benzoate	$C_6H_5.COO(CH_2)_5.Me$	"	272 (770)	....	Freutzh	B., 16, 745	44, 1075
Isopropyleugenol	$C_3H_5.OMe.OPr_2=1.3.4$; or 1.4.3	"	252-254	Liquid	Cahours	C. R., 84, 151	31, 461
Propyleugenol	$C_3H_5.OMe.Pr^a=$ " "	"	263-265	Liquid	"	"	"
Isoamyllic methoxybenzoate	$C_6H_4.OMe.(COOC_5H_{11})=1.2$	$C_{13}H_{18}O_3$	a. 300	....	"	C. R., 39, 256	v., 162
Ethyllic thymylic carbonate	$C_6H_3.Me.Pr(O.CO OEt)$	"	259-262	Liquid	Richter	J. p., 27, 503	44, 1112
Thymolactic acid	$C_6H_3.Pr.Me.(O.CHMe.CO OH)$	"	....	48	Seichlone	G. I., 12, 48	42, 849
" " ....	"	"	....	74	"	"	"
Ethyllic diethylprotocatechuate	$COOEt(OEt)_2=1.3.4$	$C_{13}H_{18}O_4$	....	56	Herzig	M. C., 5, 72	46, 846
Triethoxybenzaldehyde	$C_6H_2(OEt)_3.CHO$	"	....	95	Will	B., 16, 2106	46, 68
" " ....	"	"	....	70	Will and Jung	B., 17, 1088	46, 1143
Isoamyllic orsellinate	$C_6H_2.Me(OH)_2.COOC_5H_{11}$	"	....	76	....	A., 125, 356; 139, 37	
Acetyl dimethyl propyl pyrogallol	$C_6H_2.Pr.(OMe)_2.O\bar{A}c$	"	....	87	Hofmann	B., 11, 331	34, 417
Acetyl picamar	$C_{11}H_{13}AcO_3$	"	....	80-87	Niederist	M. C., 4, 487	44, 1005
Triethoxybenzoic acid	$C_6H_2(OEt)_3.CO OH$	$C_{13}H_{18}O_5$	....	134	Will	B., 16, 2106	46, 68
" " ....	"	"	....	100-5	Will and Jung	B., 17, 1088	46, 1143
Syringenin ....	....	"	....	170-180	Kromayer	A. P.	v., 652
Methyl arbutin ....	....	$C_{13}H_{18}O_7$	....	141-145	Schiff	G. I., 11, 99	40, 610
" " ....	....	"	....	168-169	Michael	B., 14, 2098	42, 175
" "	$O : CH(CH.OH)_4.CH_2.O$ $C_6H_4.OMe$	"	....	168-169	"	A. C. J., 5, 171	42, 174; 44, 347; 46, 439
" " ....	....	"	....	174	Schiff	G. I., 13, 538; G. I., 12, 460	46, 432; 44, 347
" " ....	....	"	....	175-176	"	B., 15, 1842	" "
Salicin....	....	"	....	120	Piria	A. C. [3], 14, 257	v., 148
" " ....	....	"	....	170	Blyth	....	33, 317
" " ....	....	"	....	198	Schmidt	Gm., 7, 860	
" (cf. B., 16, 800)	$C_6H_{11}O_5.OC_6H_4.CH_2OH$	"	....	201	Schiff	B., 14, 302	40, 439
Iso-amyl ethoxybenzene	$C_6H_4.C_5H_{11}.OEt$	$C_{13}H_{20}O$	259-261	....	Liebmann	B., 15, 1991	44, 59
Propyl propoxytoluene	$Me.Pr^a.OPr^a=1.1.3$	"	235-240	....	Mazzara	G. I., 12, 167, 333; B., 16, 243	42, 838, 1199
" "	$Me.Pr^b.OPr^b$ " "	"	230-235	Liquid	"	G. I., 12, 505; B., 16, 793	44, 463
Diisopropylcresol	$C_6H_3.Me.Pr^2.OH=1.(?)_2.3$	"	251	l. f. m.	"	" "	"
Dipropylcresol	$C_6H_2.Me.Pr^2.OH$ " "	"	255-260	....	"	" "	"
From dragon's blood ....	....	"	256-260	....	Bötsch	M. C., 1, 613	42, 210
Ethyltriethenylisovaleric acid (?)	....	$C_{13}H_{20}O_2$	280-300	....	Geuther	A., 202, 324	38, 623
Triethyl orcin	$C_7H_5.Et_3O_2$	"	265	Liquid	Luynes and Lionet	C. R., 65, 213	vi., 885
? ....	....	"	195-196	....	....	A., 208, 81	
Benzenyl triethylate	$C_7H_5(OEt)_3$	$C_{13}H_{20}O_3$	220-225	....	Limpricht	A., 135, 88	v., 856
Diethyllic diallylmalonate	$(C_3H_5)_2C(COOEt)_2$	$C_{13}H_{20}O_4$	240	....	Conrad and Bischoff	A., 204, 171; B., 13, 595	38, 628

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diethylic diallylmalonate	$(C_3H_5)_2C(COOEt)_2$	$C_{13}H_{20}O_4$	201–204 c. (225)	....	Perkin	....	45, 538
„ camphorionate ....	....	$C_{13}H_{20}O_6$	....	Liquid	Hjelt	B., 13, 797	38, 669
„ „ ....	....	„	....	67	„	„	38, 670
„ „ ....	....	„	302	....	Kachler	A., 159, 293	
Urechitoxin	quickly heated	„	....	170–180	Bowrey	J. [1878], 974	33, 261
	slowly heated	„	....	160			
Euphorbone ....	....	$C_{13}H_{22}O$	....	106–116	Flückiger	Z. C. [2], 4, 221	vi., 609
Zeorin ....	....	„	....	230–231	Paternò	B., 9, 346; G. I., 7, 281	30, 203; 32, 780
Diethylic trilactate ....	....	$C_{13}H_{22}O_7$	abt. 270	Liquid	Wurtz and Friedel	A. C., 63, 112	iii., 464
From Angostura bark ....	....	$C_{13}H_{24}O$	a. 266	....	Herzog	J., 11, 444	
From cajeputol ....	....	„	185	....	....	J. [1860], 481	
Ethylic salt from petroleum	....	$C_{13}H_{24}O_2$ (?)	236–240 u.c. (739)	Liquid	Hell and Meidinger	B., 7, 1218	26, 248
„ heptylacetate	$Me(CH_2)_6CHAc.COOEt$	$C_{13}H_{24}O_3$	271–273 u.c.	Liquid	Jourdan	A., 200, 105	38, 314
„ (sec) „	$C_7H_{13}.CHAc.COOEt$	„	250–260	....	....	B. S., 13, 1651	
Convolvulinolic acid ....	....	„	....	42–42.5	....	A., 83, 133; 95, 165	
Propylene diisovalerate	$(C_5H_9O).O.(CH_2)_3.O.(C_5H_9O)$	$C_{13}H_{24}O_4$	269–270 c.	....	Reboul	A. C. [5], 14, 491	36, 133
„ divalerate	„	„	280	Liquid	„	C. R., 79, 169	27, 1154
Ethylic anchoate	$C_7H_{11}(COOEt)_2$	„	325	Liquid	Buckton	J., 10, 304	i., 290; 10, 166
„ „	„	„	d. 260	....	Wirz	A., 104, 265	
Diethylic β -hexylmalonate	$C_6H_{13}.CH(COOEt)_2$	„	251	....	Lundahl	B., 16, 789	
Diisovaleryl glycerol	$C_3H_5.(OH)(OC_6H_5O)_2$	$C_{13}H_{24}O_5$	....	s. –40	Berthelot	A. C. [3], 41, 255	v., 980
Undecyl methyl ketone	$Me.CO.C_{11}H_{23}$	$C_{13}H_{26}O$	263	28	Krafft	B., 12, 1667	38, 34
„ „	$CH_3.(CH_2)_{10}.CO.Me$	„	191.5 (100)	28	„	B., 15, 1710	42, 1271
Dihexyl ketone (enanthon)	$C_6H_{13}.CO.C_6H_{13}$	„	253–254	....	....	A., 117, 81	
„ „	„	„	264	30	Uslar and Seekamp	A., 108, 182	iv., 178
Octylic isovalerate	$C_4H_9.CO.OH.CH_2.(CH_2)_4.CHMe_2$	$C_{13}H_{26}O_2$	249–251	....	Zincké	A., 152, 6; J., 22, 371	vi., 879
Ethylic undecylate	$CMe(CMe_3)_2.COOEt$	„	227–230 u.c.	Liquid	Butlerow	B., 12, 1484	38, 230
„ „ (umbellulate)	....	„	253–255	....	Stillmann & O'Neill	A. C. J., 4, 206	42, 1186
Tridecylic acid	$CH_3.(CH_2)_{11}.COOH$	„	236 (100)	40.5	Krafft	B., 12, 1669; 15, 1706	38, 34; 42, 1272
From scammonin ....	....	$C_{13}H_{28}O$	....	40	Keller	A.	iii., 440
Triisobutylic orthoformate	$CH(O.CH_2.CHMe_2)_3$	$C_{13}H_{28}O_3$	220–222	....	Deutsch	B., 12, 118	36, 453
Ethylic dianylic orthoformate	$CH(O.C_6H_{11})_2(OEt)$	„	255	....	Pinner	B., 16, 357	44, 731
„ „	„	„	253–255	....	„	B., 16, 1647	44, 1089
Diisocamyl glycerol (diamylin)	$C_3H_5(OH)(OC_6H_{11})_2$	„	272–274	Liquid	Reboul	A. C. [3], 60, 5	ii., 884
Propylic orthocarbonate	$C(OC_3H_7)_4$	$C_{13}H_{28}O_4$	224.2 c.	....	Röse	A., 205, 252	40, 253
Physalin ....	....	$C_{14}H_{26}O_5$	....	s. f. 180	Dessaignes and Chautard	J. P. [3], 21, 24	iv., 634
Ellagic anhydride	$C_6H_2(OH) \begin{matrix} \diagup CO-O \diagdown \\ -O-O- \\ \diagdown O-CO \diagup \end{matrix} C_6H_2$ (OH)	$C_{14}H_6O_8$	....	210	Schiff	B. S. [2], 18, 23	25, 1099
Isophenanthrene quinone ....	....	$C_{14}H_8O_2$	....	156	Limpricht	B., 6, 533; A., 167, 186	26, 898
Phenanthrene „	$C_6H_4.CO.CO.C_6H_4$	„	....	198	Ostermeyer and Fittig	B., 5, 934; A., 166, 365	26, 177, 892
„ „	....	„	....	198–200	Japp	....	37, 88
„ „	....	„	....	202	Hayduck and Limpricht	B., 6, 533	26, 898
„ „	....	„	....	201	Carnelley	....	37, 712
„ „	....	„	....	203–205	„	....	„
„ „	....	„	....	204–204.5	Japp	....	37, 85
„ „	$C_6H_4.C.O$ \parallel $C_6H_4.C.O$	„	205	Gräbe	B., 5, 862	26, 176; vii., 93
„ „	„	205	Japp	37, 409
„ „	„	205.5	„	37, 663
„ „	„	205–206	„	37, 669

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Phenanthrenequinone	$C_{14}H_8O_2$	206	Japp	37, 85
"	"	206	"	37, 409
Anthraquinone	"	270	Goldschmiedt and Schidt	W. A., 83, 7	40, 824
"	....	"	....	273	Græbe and Liebermann	G. J. C., 1870	vi., 180
"	....	"	....	273	Schmidt	B., 6, 496	26, 1235
"	....	"	....	273-274	Carnelley	....	37, 712
"	....	"	....	275	Anschütz & Schultz	G. J. C., 1879	
"	....	"	....	275	Liebermann and v. Dorp	A., 163, 97	25, 706
"	....	"	....	277	Liebermann	B., 8, 972	29, 251
"	....	"	....	276	Auerback	....	35, 803
"	....	"	....	276	Paul and Cownley	C. N., 28, 175	26, 1263
"	....	"	a. b.p. of Hg	....	Græbe	B., 5, 15	25, 295
Isoanthraquinone	....	$C_{14}H_8O_2$	....	211-212	Weber and Zincké	B., 7, 1156	28, 156
Quinone from nitroanthracene	....	"	....	235	Schmidt	B., 6, 496	26, 1234
Diphenylene ketone carbonic acid	$C_6H_4.CO.C_6H_3.COOH$	$C_{14}H_8O_3$	....	191-192	Fittig and Gebhard	B., 10, 2142 ; A., 193, 149	34, 432; 36, 166
Diphenic anhydride	$C_6H_4.CO.O.CO.C_6H_4$	"	....	211-212	Anschütz	B., 10, 1884	34, 136
"	"	"	....	210-213	"	B., 10, 326	
"	"	"	....	220	Græbe and Menschling	B., 13, 1303	
Hydroxyanthraquinone	$C_6H_4:(CO)_2:C_6H_3.OH=2.1; 1.2.3$	"	....	173-180	Baeyer and Caro	B., 7, 971	
"	"	"	....	180	Perger	J. p. [2], 15, 224	32, 343
"	"	"	....	190	Pechmann	B., 12, 2127	38, 323
"	"	"	....	191	Roemer	B., 12, 2128	42, 857
"	"	"	....	191	"	B., 15, 1793	
"	"	"	....	190	Baeyer and Caro	G. J. C., 1874	
"	"	"	....	190-191	Liebermann	A., 212, 20	42, 856
"	"	"	....	191	"	G. J. C., 1876	
"	"	"	....	191	Liebermann and Giessel	B., 10, 611	32, 495
"	"	"	....	191-193	Liebermann and Hagen	B., 15, 1804	
"	"	"	....	202	Böttger & Petersen	B., 6, 19 ; J. p. [2], 6, 367	26, 390
"	"	"	....	268-271	Baeyer and Caro	B., 7, 970	26, 67
"	"	"	....	n.f. 285	Liebermann	A., 183, 154, 208	31, 609
"	"	"	....	301	Liebermann and Hagen	B., 15, 1799	44, 73
"	"	"	....	302	Liebermann	A., 212, 25, 53	42, 857
"	"	"	....	a. 300 ; 323	Claus	B., 8, 530	28, 891
"	"	"	....	302	Simon	B., 14, 464	40, 608
"	"	"	....	320	Willgerodt	D. P., 217, 238	29, 249
Morindin	....	"	....	245	Stein	J. p., 97, 234	vi., 838
Acetic anhydride on salicylic acid	....	"	....	192	Perkin	....	43, 188
Diphenylene ketoneoxide carboxylic acid	$C_6H_4.CO.C_6H_3.COOH$	$C_{14}H_8O_4$	....	275	"	....	"
Salicylide	$C_7H_{14}O_2$ ?	"	....	195-225 p.d.	Schiff	A., 163, 218	25, 819
Dihydroxyanthraquinone (chrysazin)	$C_6H_3(OH):(CO)_2:C_6H_3(OH)=3.2.1; 1.2.3 \text{ or } 5$	"	191	Liebermann	A., 183, 184	31, 611
"	"	"	191	Liebermann and Giesel	B., 8, 1646	29, 712

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Dihydroxyanthraquinone (chrysazin)	$C_6H_3(OH) : (CO)_2 : C_6H_3(OH)$ =3.2.1; 1.2.3. or 5	$C_{14}H_8O_4$	191-192	Liebermann	B., 12, 186	36, 538
" (anthrarufin)	" =3.2.1; 1.2.6	"	....	280	Schunck & Roemer	B., 11, 1176	34, 984
" "	" "	"	....	280	Liebermann & Bolck	B., 11, 1616	36, 259
" (anthraflavic acid)	" =4.2.1; 1.2.5	"	....	a. 330	Schunck & Roemer	B., 9, 379; B., 11, 971	30, 89
" "	" "	"	....	n.f. 300	Barth and Senhofer	A., 170, 103	27, 266
" (isoanthraflavic acid)	$C_{14}H_6(OH)_2 : O_2$	"	....	a. 330	Schunck & Roemer	B., 9, 379, 679	30, 89
" (frangulic acid)	"	"	....	252-254	Faust	A., 165, 229	26, 504; vii., 534
" " "	"	"	....	246-248	"	Z. C. [2], 5, 17	vi., 623
" (m-benzdioxanthraquinone)	"	"	....	291-293	Schunck & Roemer	B., 10, 1227	34, 77
" "	"	"	....	291-293	" "	B., 11, 971	36, 68
" (quinizarin)	$C_6H_4 : (CO)_2 : C_6H_2(OH)_2$ =2.1; 1.2.3.6	"	Cryst. from alcohol	192-193 u.c.	Grimm	B., 6, 508	26, 1235
" "	" "	"	....	193-194	Schunck & Roemer	B., 10, 555	31, 675
" "	" "	"	after subl.	194-195 u.c.	Grimm	B., 6, 508	26, 1235
" (purpuroxanthin)	" =2.1; 1.2.3.5	"	....	262-263	Plath	B., 9, 1204	31, 87
" "	" "	"	....	263	Liebermann and Hagen	B., 15, 1804	
" "	" "	"	....	264	Schunck & Roemer	B., 10, 173	31, 667
" (alizarin)	" =2.1; 1.2.3.4	"	....	sb. 215	Schunck	A., 66, 174	i., 114
" "	" "	"	....	275-277	O. Fischer	B., 8, 676	28, 1021
" "	" "	"	261 (11); 627 (20)	....	Troost	C. R., 89, 439	36, 1039
" "	" "	"	....	275	Liebermann	B., 8, 381	
" "	" "	"	....	a. 280	Claus	B., 8, 531	28, 891
" "	" "	"	....	289-290	"	"	"
" "	" "	"	....	290	Willgerodt	D. P., 217, 238	29, 249
Trihydroxyanthraquinone (purpurin)	$C_6H_4 : (CO)_2 : C_6H(OH)_3$ =2.1; 1.2.3.4.6	$C_{14}H_8O_5$	sb. 150	253	Schunck & Roemer	B., 10, 552	31, 671; 32, 624
" "	" "	"	sb. 250	....	Schützenberger	"	
" "	" "	"	....	251-253	Liebermann and Plath	B., 10, 1619	
" "	" "	"	....	256	Diehl	B., 11, 185	
" (anthragallol)	" =2.1; 1.2.3.4.5	"	....	s.w.m. 290	Seuberlich	B., 10, 40	
" (anthrapurpurin)	$C_{14}H_6(OH)_3 : O_2$	"	....	a. 330	Schunck & Roemer	B., 9, 679	30, 300
" (flavopurpurin)	"	"	....	a. 330	" "	"	"
Tetrahydroxyanthraquinone (oxypurpurin)	$C_{14}H_4(OH)_4 : O_2$	$C_{14}H_8O_6$	....	n.f. 290	Diehl	B., 11, 185	34, 430
" (anthrachrysone)	"	"	....	n.f. 320	Barth and Senhofer	A., 164, 113	vii., 86; 25, 1015
Rufohydroellagic acid	....	"	....	300	Rembold	B., 8, 1496	29, 592
Ellagic acid	$C_6H_2(COOH)(OH)$ 	$C_{14}H_8O_9$	....	110	Schiff	B. S. [2], 18, 23	25, 1099
Phenanthrol	$C_{14}H_9.OH$	$C_{14}H_{10}O$	....	112	Rehs	B., 10, 1252	34, 76
Phenanthrone	$C_6H_4.CH_2.CO.C_6H_4$	"	....	148-149	Lachowicz	J. p. [2], 28, 68	46, 82
"	"	"	....	213	Japp and Streatfield	B., 16, 213	43, 33
Anthranol	$C_6H_4 : C_2H(OH) : C_6H_4$	"	....	163-170	Liebermann & Topf	B., 9, 1201	31, 87
"	"	"	....	163-170	Liebermann	A., 212, 6	42, 856
Anthrol	$C_6H_4 : C_2H_2 : C_6H_3.OH$	"	....	abt. 200	"	A., 212, 26, 49	42, 859
α- "	"	"	....	d. 250 w.m.	Linke	J. p. [2], 11, 227	28, 1197
β- "	"	"	....	Solid	"	"	"
Benzostilbene	....	"	....	244-5	Rochleder	A., 41, 93	i., 565
?	cf. $C_{13}H_{10}O$	"	....	173	Græbe and Ebrard	B., 15, 1679	
Isobenzil	$C_{14}H_{10}O_2$	314	Liquid	Alexeyeff	A., 129, 347	vi., 328
"	"	78-81	Zincké	A., 198, 115	38, 115

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Benzil	$C_{14}H_{10}O_2$	90-92	Zinin	A., 34, 190	i., 545
"	$C_6H_4.CHPh.O.CO$	"	346-348 c.	Wittenberg and Meyer	B., 16, 502	44, 804
" ....	....	"	....	94-95	Klinger	B., 16, 996	44, 920
"	$Me.C_{12}H_7:C:O_2$	"	....	95	Limpricht and Schwanert	J. [1867], 674; A., 145, 338	vi., 305, 1107
" ....	....	"	....	94	Paal	B., 16, 638	
"	$C_6H_5.CO.CO.C_6H_5$	"	....	92-93	Forst and Zincké	B., 8, 799	
" ....	....	"	....	96-97, 95-96	Liebermann and Homeyer	B., 12, 1975	
Isobenzil	$C_6H_5.CO.CO.C_6H_5$	"	....	146	Brigel	A., 135, 172	vi., 333
" ....	....	"	....	155-156	Klinger	B., 16, 996	44, 920
Benzhydrylbenzoic anhydride	$C_6H_4.CHPh.O.CO=1.2$	"	....	115	Rotering & Zincké	B., 9, 631	30, 414
Fluorene carbonic acid	$C_6H_4.C_6H_4.CH.CO.OH$	"	....	220-222	Friedlander	B., 10, 536	32, 493
Fluorenic acid	$C_6H_4.CH_2.C_6H_3.CO.OH$	"	....	245-246	Fittig & Liepmann	A., 200, 15	38, 401
Hydroxyanthrol	$C_6H_4:C_2H(OH):C_6H_3.OH$	"	....	202-206 p.d.	Liebermann & Simon	B., 14, 1264	40, 823
Dihydroxyanthracene (chrysazol)	$C_{14}H_8(OH)_2$	"	....	d. at 220	Liebermann	B., 12, 185	36, 537
" (flavol)	"	"	....	260-270	Schüler	B., 15, 1808	44, 74
Oxytolidene	....	"	....	172	....	A., 153, 122	
Benzoic anhydride	Bz_2O	$C_{14}H_{10}O_3$	....	42	Schröder	B., 12, 1612	
"	"	"	310	42	Gerhardt	A., 87, 73	i., 557
"	"	"	360 c.	....	Anschütz	B., 10, 1882	34, 136
Benzoylsalicyl aldehyde	....	"	a. 360	....	....	A., 145, 297	
Disalicyl aldehyde (parasalicyl)	....	"	sb. 180	127	Ettling	A., 53, 77	v., 170
"	....	"	....	128	....	A., 145, 299	
"	....	"	....	130	....	As., 8, 42	
Benzoylbenzoic acid + H_2O	$C_6H_4.Bz.CO.OH=1.2 (?)$	"	....	85	Behr and v. Dorp	B., 7, 17	27, 471
"	" = ?	"	....	85-87	Plascuda & Zincké	B., 6, 908; 7, 982	26, 1225
"	" = 1.2	"	....	93-94	Hemilian	B., 11, 838	34, 738
"	"	"	....	127	"	"	"
"	"	"	....	127-128	Plascuda & Zincké	B., 6, 908	26, 1225
"	"	"	....	127-128	"	B., 7, 987	28, 69
"	"	"	....	127-128	"	B. S. [2], 33, 56	38, 470
"	"	"	....	127-128	Fittig	B., 12, 1740	38, 120
"	" = 1.3	"	....	160	Döbner	B., 14, 648	40, 600
"	"	"	....	160	"	A., 210, 277	42, 508
"	"	"	....	161	Senff	A., 220, 225	46, 428
"	"	"	....	161	Ador	B., 13, 320; B. S., [2], 33, 56	38, 470
"	" = 1.4	"	....	194; 194	Kollarits and Merz	B., 6, 539, 540	
"	"	"	....	194	Behr and v. Dorp	B., 7, 19	27, 471
"	"	"	....	194	Plascuda & Zincké	B., 7, 988	28, 69
"	"	"	....	194	Ador	B. S. [2], 33, 56	38, 470
"	"	"	....	194-195	Richter	B., 4, 459	vii., 177
"	"	"	....	194-195	Zincké	B., 4, 510; A., 161, 98	24, 689
Diphenyleneglycollic acid	$C_6H_4.C_6H_4.C(OH).CO.OH$	"	....	161-162	Friedlander	B., 10, 125	32, 336
"	"	"	....	162	"	B., 10, 534	32, 492
Deoxyalizarin	$C_6H_4:C_2H(OH):C_6H_2(OH)_2$	"	....	208	Roemer	B., 14, 1259	40, 823
Salicylorcinol oxide	$CO.C_6H_4.O.C_6H_2Me.OH$	"	....	140	Michael	A. C. J., 5, 81	46, 312
Desoxyisoanthraflavic acid	$C_6H_3(OH).CH_2.C_6H_3(OH).CO$	"	....	330	Roemer & Schwarzer	B., 15, 1040	42, 975
Oreoselone	$(C_7H_5O)_2O$	"	....	190	Schnedermann and Winckler	A., 51, 315	iv., 216
Diphenylic oxalate	$(COOPh)_2$	$C_{14}H_{10}O_4$	130 d.	Nencki	Jp. [2], 25, 283	43, 359
Benzoylhyperoxide	"	103-5	J. [1863], 315; 1870, 686	

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Diphenic acid (iso-)	$(C_6H_4.COOH)_2=3.1; 1.?$	$C_{14}H_{10}O_4$	193	Schultz	B., 17, 469	46, 903
" "	" $=2.1; 1.3$	"	216	Fittig and Gebhard	A., 193, 155	36, 166
" "	" $=2.1; 1.2$	"	....	226	Fittig & Ostmeyer	A., 166, 367	vii., 434; 26, 893; 32, 659
" " ....	" "	"	....	228-229	Schultz	B., 12, 235	36, 653
" "	" $=2.1; 1.4$	"	....	n.f.	Carnelley	....	32, 658
" "	" $=4.1; 1.4$	"	d.w.sb.	d.w.m.	Dœbner	B., 9, 272; A., 172, 117	27, 893
" " ....	" "	"	....	n.f.	Carnelley	....	32, 658
Dimetoxylbenzoid ....	....	$C_{14}H_{10}O_5$	....	130-135	Schiff	B., 15, 2588	44, 335
Hydroxybenzoic anhydride....	$(HO.C_6H_4.CO)_2O=(1.4)_2$	"	....	abt. 275	Klepl	Jp. [2], 25, 525	42, 1294
Hydroxybenzoyl hydroxybenzoic acid	$C_6H_4(OH).CO.O.C_6H_4.COOH$	"	....	261	"	Jp., 28, 193	46, 447
Dihydroxybenzoylbenzoic acid (resorcinphthalein)	$C_6H_3(OH)_2(CO.C_6H_4.COOH)=1.3.?$	"	....	200	....	A., 183, 24	
Isopinic acid ....	....	$C_{14}H_{10}O_6$	....	148 d.	Liechti	As., 7, 129	29, 298
Gardenic acid ....	....	"	....	223 p.d.	Stenhouse & Groves	A., 200, 316	35, 693
" " ....	....	"	....	abt. 236	" "	....	31, 553
Opinic acid ....	....	$C_{14}H_{10}O_8$	....	148	Liechti	Z. C. [2], 6, 196; As., 7, 129	vi., 882; 29, 296
Tetrahydroellagic acid ....	....	"	sb. 200-220	d. 230 w.m.	Oser and Kalmann	W. A., 83, 161	40, 815
Digallic acid	$C_6H_2.COOH(OH)_2.O.CO.C_6H_2(OH)_3$	$C_{14}H_{10}O_9$	....	sf. 110-115 d.	Schiff	A., 170, 54	27, 268
Diphenylacetic aldehyde	$CHPh_2.CHO$	$C_{14}H_{12}O$	....	Liquid	Zincké	B., 9, 1769	31, 460
" "	"	"	315 s. d.	Liquid	Breuer and Zincké	A., 198, 182	38, 118
Isohydrobenzoin anhydride...	$CHPh.O.CHPh(?)$	"	....	95	Limpricht and Schwanert	A., 155, 59; 160, 177	25, 138; vii., 172, 174
" " ....	"	"	....	100-101	Zincké	B., 9, 1773	31, 460
" " ....	"	"	....	101-102.5	Breuer and Zincké	A., 198, 159	38, 117
Hydrobenzoin "	$CHPh.O.(CHPh)_2.O.CHPh(?)$	"	....	125	Limpricht and Schwanert	A., 155, 59; A., 160, 186	25, 138; vii., 172, 175
" " ....	"	"	....	131-132	Zincké	B., 9, 1773	31, 460
" " ....	"	"	....	131-132	Breuer and Zincké	A., 198, 158	38, 117
Benzylphenyl ketone (desoxybenzoin)	$C_6H_5.CO.CH_2.C_6H_5$	"	....	45	Zinin	Z. C. [2], 4, 718	vi., 332
" " " ....	"	"	....	47	"	J. p., 33, 35	iii., 185
" " " ....	"	"	....	54-55	Limpricht and Schwanert	A., 155, 59	vii., 172
" " " ....	"	"	....	55	Radziszewsky	B., 6, 491	
" " "	"	"	310-315	55	"	B., 8, 757	
" " " ....	"	"	....	57	Græbe & Bungener	B., 12, 1079	36, 790
" " " ....	"	"	....	58	Limpricht and Schwanert	A., 145, 330; J., [1867], 675	vi., 332, 1108
Tolylphenyl ketone	$C_6H_4.Me.Bz=1.2$	"	....	Liquid	Behr and v. Dorp	B., 7, 19	27, 471
" "	"	"	305-306 u. c. 315-316 c. (758)	Liquid	Plascuda & Zincké	B., 6, 908	26, 1225
" "	"	"	306-307	l. — 18	Ador and Rilliet	B., 12, 2301	
" "	"	"	314-316 c. (745)	Liquid	Senff	A., 220, 225	46, 428
" "	" $=1.3$	"	305-311	Liquid	Ador and Rilliet	B., 12, 2301	
" "	" $=1.4$	"	307-312	Liquid	Zincké	A., 161, 108; B., 4, 514	24, 689
" "	"	"	310-312	Solid	Radziszewsky	B., 6, 810	27, 470
" "	"	"	313-314 u. c.; 326.5 c.	Solid	Plascuda & Zincké	B., 6, 908	26, 1225
" "	"	"	311-312(720)	50	Ador and Rilliet	B., 12, 2299	
" "	"	"	318-321	51	" "	"	
" " ....	"	"	....	54	Plascuda & Zincké	B., 7, 982	28, 69
" "	"	"	305-315	56.5-57	Kollarits and Merz	B., 6, 538	26, 1035
" " ....	"	"	....	57	Behr and v. Dorp	B., 7, 19	27, 471
" " ....	"	"	....	55; 59-60	Richter	Tabellen	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts Dict. & J. Ch. Soc.
Tolylphenyl ketone	$C_6H_4.Me.Bz=1.4$	$C_{14}H_{12}O$	a. 300	Solid	Grucarevic & Merz	B., 6, 1244	
Dihydroanthranol	$C_6H_4.CH_2.C_6H_4.CH(OH)$	"	....	76	Perger	J. p. [2], 23, 137	40, 607
" .....	"	"	....	80	Roemer	B., 15, 224	42, 974
Diphenylacetic acid	$CHPh_2.COOH$	$C_{14}H_{12}O_2$	....	145-146	Symons and Zincké	A., 171, 122; B., 6, 1189	27, 162
" .....	"	"	....	146	Jena	B., 2, 385; A., 155, 84	vi., 306; vii., 158
" .....	"	"	....	148	....	B. S., 33, 59	
Benzyl benzoate	$C_6H_5.COO.CH_2.C_6H_5$	"	300	....	Busse	B., 9, 831	30, 640
"	"	"	303-304	....	Kraut	A., 152, 159	
"	"	"	345	20	Canizzaro	J., 7, 585	i., 553
Phenoxyacetophenone	$Ph.CO.CH_2.OPh$	"	....	72	Mohlau	B., 15, 2498	44, 332
Benzoin	Physical isomer	"	....	98	Zincké	A., 198, 115	38, 115
" .....	....	"	....	120	....	....	i., 559
"	Constitution not definitely settled	"	....	133-134	Limpricht and Schwanert	A., 160, 177; B., 4, 337	25, 138
" .....	....	"	....	135	"	"	"
" .....	....	"	....	137	"	"	"
" .....	....	"	....	137	Jena and Limpricht	A., 155, 89	vii., 169
Benzyl salicylaldehyde	$C_6H_4.OCH_2Ph.CO=1.2$	"	a. 360	46	Perkin	A., 148, 24	21, 122; vi., 1009
Methoxybenzophenone	$C_6H_4.Bz.OMe=1.4$	"	....	61-62	Rennie	....	41, 227
" .....	"	"	....	61-62	"	....	"
Cresylic benzoate (benzoyl-cresol)	$C_6H_4.Me.OBz=1.2$	"	....	Liquid	Engelhardt and Latschinoff	Z. C. [1869], 621	
" .....	"	"	....	Liquid	Kekulé	B., 7, 1007	
"	"	"	a. 360	Liquid	Buff	B., 4, 378	24, 531
"	" =1.3	"	290-300	38	Engelhardt and Latschinoff	Z. C. [1869], 622	vi., 507
"	" =1.4	"	....	70	"	Z. C. [1869], 622	vi., 506
" .....	"	"	....	70	Guareschi	G. I., 4, 22	27, 584
" .....	"	"	....	70-70.5	Buff	B., 4, 378	vii., 393; 24, 531
Phenylc toluate	$C_6H_4.Me.COOPh=1.4$	"	....	71-72	Kraut	J. [1858], 406; I. D. Göttingen, 1854	v., 864
Benzylbenzoic acid	$C_6H_4.CH_2Ph.COOH=1.3$	"	....	107-108	Senff	A., 220, 225	46, 428
"	" =1.2	"	....	114	Rotering & Zincké	B., 9, 633	30, 414
"	" =1.4	"	....	154-155	Zincké	B., 4, 513	24, 689
Tolylbenzoic acid	$Me.C_6H_4.C_6H_4.COOH$	"	....	176	Carnelley	J. [1877], 385	32, 658
"	" =1.2; 1.4	"	....	179-180	"	....	37, 707
"	" =1.4; 1.4	"	....	244 d.	"	J. [1877], 384	32, 658
Diphenol ethylidene	$CH_2:C(C_6H_4.OH)_2$	"	....	280 p.d.	ter Meer	B., 7, 1203	28, 158
Hydroxyhydranthranol	$C_6H_4.CH(OH).C_6H_3(OH).CH_2$	"	....	99	Liebermann	A., 212, 15	42, 856
"	" =2.1; 1.2.3	"	....	99	Liebermann and Giessel	B., 10, 609	32, 494
Diphenylglycollic acid (benzilic)	$CPh_2(OH).COOH$	$C_{14}H_{12}O_3$	....	120	Zinin	A., 31, 329	i., 546
" .....	"	"	....	150	Jena	B., 2, 384; A., 155, 77	vi., 306; vii., 157
Phenylmandelic acid	$Ph.CH(OPh).COOH$	"	....	108	Meyer and Boner	B., 14, 2393	42, 196
Benzylsalicylic acid	$C_6H_4.(OCH_2Ph).COOH=1.2$	"	....	75	Perkin	A., 148, 28	21, 122; vi., 1006
Benzhydrylbenzoic acid	$C_6H_4.CHPh(OH).COOH=1.4$	"	....	164-165	Zincké	B., 4, 512; A., 161, 102	24, 689
" .....	" = ?	"	....	121	Senff	A., 220, 225	46, 428
Benzylhydroxybenzoic acid....	$C_6H_3.CH_2Ph.OH.COOH$	"	....	139-140	Paternò and Fileti	G. I., 3, 121, 251	27, 372
Dihydroxyphenyltolyl ketone ....	....	"	....	200	....	A., 179, 196	
Orcinyl benzoate	$C_7H_6(OH)(OBz)$	"	....	88	Rasinski	J. p. [2], 26, 53	42, 1289

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tetroxyditolyl anhydride	$\begin{array}{c} \text{C}_6\text{H}_5\text{Me.OH} \\ \diagdown \\ \text{O} \\ \diagup \\ \text{C}_6\text{H}_5\text{Me.OH} \end{array}$	$\text{C}_{14}\text{H}_{12}\text{O}_8$	....	232	Nietzki	A., 215, 125 ; B., 11, 1281	44, 467 ; 34, 869
Saliretone ....	....	"	....	121.5	Giacosa	J. p., 21, 221	38, 716
Dimethylic naphthalate	$\text{C}_{10}\text{H}_6(\text{COOMe})_2 = \beta_1\beta_2$;	$\text{C}_{14}\text{H}_{12}\text{O}_4$	....	102-103	Behr and v. Dorp	A., 172, 273	27, 1168
Diacetoxynaphthalene	$\text{C}_{10}\text{H}_6(\text{OAc})_2$	"	....	129	Weber	B., 14, 2209	42, 205
Oroselone ....	....	"	....	156	Heut	A., 176, 73	28, 772
"	$\text{C}_6\text{H}_4(\text{OH})\text{O.C}_6\text{H}_4\text{OCH}_2\text{COH}$	"	....	177	Hlasziwetz and Weidel	A., 174, 67	28, 257
" ....	....	"	....	190	Schnedermann and Winkler	A., 51, 321	"
Ethylic phthalylaceto-acetate	$\text{C}_6\text{H}_4 : (\text{CO})_2 : \text{CAc.CO} \text{OEt}$	$\text{C}_{14}\text{H}_{12}\text{O}_5$	....	124	Fischer and Koch	B., 16, 651	44, 806
Gardenin ....	....	$\text{C}_{14}\text{H}_{12}\text{O}_6$	....	155	Flückiger	P. J. [3], 7, 589 ; A., 98, 316	
" ....	....	"	....	163-164	Stenhouse & Groves	A., 200, 311	31, 552 ; 35, 690
Dibenzyl oxide	$(\text{C}_6\text{H}_5\text{CH}_2)_2\text{O}$	$\text{C}_{14}\text{H}_{14}\text{O}$	300-315	Liquid	Cannizzaro	A., 92, 115	i., 579
Benzyl phenyl carbinol	$\text{C}_6\text{H}_5\text{CH}_2\text{CHPh.OH}$	"	....	62 (42 ?)	Limpricht and Schwanert	A., 155, 62 ; 174, 332	vii., 173
Tolyl phenyl carbinol	$\text{C}_6\text{H}_4\text{Me}(\text{CHPh.OH}) = 1.4$	"	....	52-53	....	A., 194, 265	
Benzyl tolyl oxide (benzyl cresyl oxide)	$\text{C}_6\text{H}_4\text{Me.OCH}_2\text{Ph} = 1.2$	"	285-290	Liquid	Staedel	B., 14, 898 ; A., 217, 45	40, 724 ; 44, 585
" " "	" = 1.3	"	300-305	43	"	A., 217, 46	44, 586
" " "	" "	"	300-305	43	Orth	B., 15, 1129	42, 1204
" " "	" = 1.4	"	....	41	Staedel	B., 14, 898 ; A., 217, 44	40, 724 ; 44, 585
Benzyl methoxybenzene	$\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OMe}$	"	abt. 305(760) ; 170 (10) ; 155 (4)	l. very low temp.	Paternò	G. I., 2, 1 ; J. [1871], 468 ; [1872], 405	25, 703
" " "	"	"	304-308	....	Rennie	....	41, 37
" " "	$\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OMe}$	"	abt. 300	....	Paternò	G. I., 1, 589	25, 241
Ditolyl oxide (dicresyl oxide)	$(\text{Me.C}_6\text{H}_4)_2\text{O} = (1.3)_2$	"	284-288	Liquid	Gladstone & Tribe	....	41, 13
" " "	" = (1.4) ₂	"	220-270	50	"	....	"
Tolyl phenol	$\text{HO.C}_6\text{H}_4\text{CH}_2\text{C}_6\text{H}_4\text{Me}$	"	250-255 (8-10)	Liquid	Mazzara	G. I., 9, 421	38, 161
Benzyl cresol	$\text{C}_6\text{H}_5\text{Me.OH.CH}_2\text{Ph} = 1.4$?	"	240 (40)	Liquid	Paternò & Mazzara	G. I., 8, 303	36, 315
" " "	" "	"	260-265 (40)	....	....	J. [1878], 591	
Isohydrobenzoin + aq.	$\text{C}_{14}\text{H}_{12}(\text{OH})_2$	$\text{C}_{14}\text{H}_{14}\text{O}_2$	....	95-96	Forst and Zincké	A., 182, 279	30, 636
" " "	"	"	....	96	Limpricht and Schwanert	A., 160, 177	vii., 172 ; 25, 138
" " "	"	"	....	119	Wallach	J.p., 25, 262	42, 853
" " "	"	"	....	119.5	Ammann	Z. C. [2], 7, 83 ; A., 168, 75	24, 385 ; vii., 171
" " "	"	"	....	119-120	Forst and Zincké	A., 182, 279	30, 636
Hydrobenzoin ....	"	"	....	100	Claus	....	vi., 333
" " "	"	"	....	116	Hermann	A., 132, 75	"
" " "	"	"	....	112-122	Limpricht and Schwanert	A., 145, 345	vi., 1108
" " "	"	"	....	122	"	Z. C. [2], 3, 684	vi., 333
" " "	"	"	....	129	Church	P. M. [4], 25, 522	"
" " "	"	"	a. 300	130	Zinin	Z. C. [2], 4, 718 ; A., 123, 125	vi., 333 ; iii., 185
" " "	"	"	....	132	Limpricht and Schwanert	A., 160, 177	vii., 172 ; 25, 138
" " "	"	"	....	115-146	"	"	"
" " "	"	"	....	132	Jena and Limpricht	A., 155, 89	vii., 169
" " "	"	"	....	132.5	Ammann	A., 168, 71 ; Z. C., [2], 7, 83	vii., 171 ; 24, 384
" " "	"	"	....	134	Forst and Zincké	A., 182, 273	30, 635
" " "	"	"	....	134-135	Grimaux	B., 2, 281	
" " "	"	"	....	138	Paal	B., 16, 637	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diphenoxyethane	PhO.CH ₂ .CH ₂ .OPh	C ₁₄ H ₁₄ O ₂	....	95	Lippmann	C. C.	vi., 917
" ....	"	"	....	98.5	Burr	Z. C. [2], 5, 165	"
Diphenolethane	HO.C ₆ H ₄ .(CH ₂) ₂ .C ₆ H ₄ .OH	"	....	185	Kade	B., 7, 239	
"	CH ₃ .CH(C ₆ H ₄ .OH) ₂	"	....	122	Fabini	B., 11, 283	34, 431
<i>α</i> -Dimethoxydiphenyl	C ₆ H ₄ (OMe).C ₆ H ₄ (OMe)	"	310-320	....	Barth	A., 156, 99	24, 123
<i>α</i> - " (iso-) ....	"	"	....	146	"	"	"
<i>β</i>- " ....	"	"	....	crystalline	Barth and Schreder	B., 11, 1337	
Acetyl dimethyl (or ethyl) naphthol	C ₁₀ H ₅ Me ₂ .OAc or C ₁₀ H ₆ Et.OAc	"	....	77-78	Cannizzaro and Carnelutti	G. I., 12, 393 ; B., 12, 1575	44, 79
Dihydroxytolyl oxide	O(C ₆ H ₃ .Me.OH) ₂	C ₁₄ H ₁₄ O ₃	....	100-110 d.	Biedermann	B., 6, 327	vii., 394 ; 26, 898
Terebenzic acid ....	....	C ₁₄ H ₁₄ O ₄	sb. 100	169	Cailliot	A. C. [3], 21, 31	v., 723
Hydro (para) oxybenzoin ....	....	"	....	222	Herzfeld	B., 10, 1268	34, 65
Ethyl piperate	CH ₂ :O ₂ :C ₆ H ₃ .C ₄ H ₄ .COOEt	"	....	70-72	....	A., 152, 31	
" " ....	"	"	....	77-78	....	J. [1857], 414	
? acid	C ₂₀ H ₂₀ O ₆ (?)	"	....	200	....	J. [1862], 466	
Curcumin	C ₁₆ H ₁₄ O ₄ (?)	"	amorphous	140	Gajewsky	B., 5, 1103	
"	(C ₄ H ₄ O) _n (?)	"	crystalline	172	"	B., 3, 625	
"	C ₁₀ H ₁₀ O ₃	"	non. subl.	165	Daube	B., 3, 611	
"	C ₆ H ₃ .(CH.C ₆ H ₅ .COOH).OMe.OH = 1.3.4	"	....	177-178	Jackson and Menke	B., 14, 487 ; 15, 1761 ; A. C. J., 4, 77, 360	40, 611 ; 42, 1108
<i>α</i> -Salylic acid	2 C ₇ H ₆ O ₂ .H ₂ O	C ₁₄ H ₁₄ O ₅	....	100-101	Städeler	As., 7, 165	vii., 1073
Dimethyl rhamnetin ....	....	"	....	156-157	....	A., 196, 318	
Cotogenin ....	....	"	....	210	Jobst and Hesse	A., 199, 44	38, 327
Diphenylic orthoxalate	PhO.C(OH) ₂ .C(OH) ₂ .OPh	C ₁₄ H ₁₄ O ₆	150-180 p.d.	123-124	Claparede & Smith	....	43, 360
" " ....	"	"	....	126-127	Staub and Smith	....	45, 301
Pyrousnetic acid ....	....	"	....	183-186	Paternò	G. I. [1882], 231 ; B., 15, 2240	42, 1081
Hydrogardenic acid ....	....	"	....	190	Stenhouse & Groves	A., 200, 321	35, 695
Tetramethylic pyromellitate	(COOMe) ₄ = 1.2.4.5	C ₁₄ H ₁₄ O ₈	....	138	Baeyer	A., 166, 339	26, 756 ; vii., 785
" prehnitate	" = 1.2.3.5	"	....	104-108	"	A., 166, 332	
Ethoxydimethylnaphthalene	C ₁₀ H ₅ .Me ₂ .OEt	C ₁₄ H ₁₆ O	....	90	Cannizzaro and Carnelutti	G. I., 12, 393 ; B., 16, 428	44, 79
? ....	....	"	280 (40) ; 340-350 (760)	....	Hodgkinson	....	33, 498
Diethoxynaphthalene	C ₁₀ H ₆ .(OEt) ₂	C ₁₄ H ₁₆ O ₂	....	104	Liebermann and Hagen	B., 15, 1428	42, 1212
Action of KHO on anethol ....	....	"	....	65	Landolph	C. R., 81, 97 ; B., 13, 147	29, 246 ; 38, 385
Ethylic benzoyltetramethylene carboxylate	CBz(COOEt) < CH ₂ > CH ₂	C ₁₄ H ₁₆ O ₃	....	59-60	Perkin	B., 16, 1791	44, 1084
From crude butyl glycol ....	....	"	160-165 (15)	....	Wurtz	C. R., 97, 473	46, 169
Ethylic benzylidene malonate	CHPh : C(COOEt) ₂	C ₁₄ H ₁₆ O ₄	190-193 (17)	....	Claisen	B., 14, 348	40, 405
" " "	"	"	215-217 (30)	Liquid	Claisen and Crismer	A., 218, 129	46, 444
Curcumin dihydride	(CH ₂ .C ₆ H ₆ .COOH).OMe.OH = 1.3.4	"	....	near 100	Jackson and Menke	A. C. J., 4, 360 ; B., 16, 572	44, 481
Cubebic acid	(C ₁₃ H ₁₄ O ₇ ?)	"	....	45	Schulze	A. P. [3], 2, 388	vii., 402 ; 26, 1149
? ....	....	"	340-350	....	....	A., 201, 171, 180	
Ethylic phenylacetosuccinate	COOH.CHAc.CHPh.COOEt	C ₁₄ H ₁₆ O ₆	....	132.5	Weltner	B., 17, 72	46, 746
Propiohomoferulic acid	C ₆ H ₃ (CH : CMe.COOH)(OMe)(OC ₃ H ₆ O) = 1.3.4	"	....	128-129	Tiemann and Kraaz	B., 15, 2060	44, 200
Physalin ....	....	"	....	180-190	....	J. [1852], 670	
Acetoxytoluic aldehyde + acetic anhydride	Me.OAc.CH(OAc) ₂ = 1.4.5	C ₁₄ H ₁₆ O ₆	....	94	Schotten	B., 11, 786	34, 878
Triacetoxyisoxylene	Me ₂ .(OAc) ₃ = 1.3.5.6.2 or 4	"	....	99	Fittig and Liepermann	A., 180, 41	29, 920
Diacetoxythymoquinone	C ₆ Pr ₂ Me.(OAc) ₂ :O ₂ = 1.4.6. (?) ₃	....	....	81	Zincké	B., 14, 95	40, 596

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Acetoxymethoxybenzaldehyde + acetic anhydride	OMe.OAc.CH(OAc) ₂ = 1.4.5.	C ₁₄ H ₁₆ O ₇	....	69-70	Tiemann and Müller	B., 14, 1995	42, 53
" "	" = 1.2.4 (or 5)	"	....	88-89	Tiemann and Nagai	B., 8, 1143	29, 78
Ostruthin ....	....	(C ₁₄ H ₁₇ O ₂) _n	....	115	Gornp Besanez	A., 183, 321; B., 7, 564	31, 717; 27, 907
Cumenylangelic acid....	C ₆ H ₄ .Pr.(C ₄ H ₆ .COOH)	C ₁₄ H ₁₈ O ₂	....	123	Perkin	J. [1877], 791	31, 403
Ethyl methylbenzyl acetate	Ph.CH ₂ .CMeAc.CO ₂ Et	C ₁₄ H ₁₈ O ₃	287	Liquid	Conrad	A., 204, 180; B., 11, 1055	34, 732
Methylthymoacrylic acid	Me.Pr.OAc.(CH:CH.COOH) = 1.4.3.6	"	....	141	Kobek	B., 16, 2105	46, 57
Diethyl benzylmalonate	C ₆ H ₅ .CH ₂ .CH(COOEt) ₂	C ₁₄ H ₁₈ O ₄	203	Liquid	Conrad	B., 12, 752	36, 707
" "	"	"	300	....	"	A., 204, 175	
Dipropyl terephthalate	C ₆ H ₄ (COO.Pr ^a) ₂ = 1.4	"	....	31	Berger	B., 10, 1742	34, 152
Diisopropyl " "	C ₆ H ₄ (COO.Pr ^b) ₂ = 1.4	"	....	55-56	"	"	"
Diethyl xylenedicarbonate	C ₆ H ₄ (CH ₂ .COOMe) ₂ = 1.4	"	....	57.5-58	Klippert	B., 9, 1768	31, 468
Maynos resin....	....	"	....	abt. 105	Lewy	A. C. [3], 10, 380	iii., 858
Benzoylbenzoic anhydride	(C ₆ H ₅ .CO.C ₆ H ₄ .CO) ₂ O	C ₁₄ H ₁₈ O ₃	....	120	Pechmann	B., 14, 1866	42, 184
Methoxydiacetoxypentyl benzene (picamar diacetate)	C ₆ H ₅ .Pr.OMe.(OAc) ₂	"	....	82.5-83	....	M. C., 4, 185	
Filix acid	....	"	....	160	....	A., 54, 119; 143, 279	
Olivil + H ₂ O	....	"	....	118-120	....	A., 6, 31; 54, 68	iv., 200
" " " "	....	"	....	119-120	Amato	G. I., 8, 83; B., 11, 1251	34, 681
Tetramethyl isohydroxypropyl mellitate	(COOMe) ₄ = 1.2.4.5	C ₁₄ H ₁₈ O ₈	....	156	Bayer	A., 166, 339	26, 756; vii., 785
Saccharovanillic acid	....	C ₁₄ H ₁₈ O ₉	....	211-212	Tiemann & Reimer	B., 8, 515	28, 1199
Isoamylic hydrocinnamate	C ₆ H ₅ .CH ₂ .CH ₂ .COOC ₅ H ₁₁	C ₁₄ H ₂₀ O ₂	291-293 c.	....	Erlenmeyer	A., 137, 335; J., 19, 367	vi., 469
Phenyl caprylate	C ₇ H ₁₅ .COOPh	"	300	....	....	C. R., 39, 257	
Isobutyl eugenol	(CH ₂ .CH:CH ₂).OMe.OC ₄ H ₉ = 1.3.4 or 1.4.3	"	272-274	Liquid	Cahours	C. R., 84, 151; J. [1877], 581	31, 462
Pyrophotosantonin acid	....	"	....	94.5	Sestini and Danesi	G. I. [1882], 83	42, 627
Isoamylic phloretate....	C ₆ H ₅ (OH)(COOC ₅ H ₁₁)	C ₁₄ H ₂₀ O ₃	a. 290	Liquid	Hlasiwetz	A., 102, 154	iv., 492
Ethyl carvacrol glycolate....	C ₆ H ₃ Me.Pr ^a .(O.CH ₂ .COOEt) = 1.4.6	"	289	s. low temp.	Spica	G. I., 10, 340	38, 889
" thymol	" = 1.4.5	"	290	l. f. m.	"	"	"
Helleboretin	....	"	....	a. 200	Husemann and Marme	A., 135, 60	vi., 695
Autiarin	....	C ₁₄ H ₂₀ O ₃	....	220.6	....	A., 28, 304; Z. C. [1869], 351	
Tetraethyl ethylene tetracarboxylate	(COOEt) ₂ .C:C(COOEt) ₂	C ₁₄ H ₂₀ O ₆	210 (90)	....	Conrad	B., 13, 2161	42, 1188
" " "	"	"	325-328 d.	57-58	Conrad & Guthzeit	A., 214, 76	44, 46
Methoxydiisopropyl toluene	Me.Pr ^b .OMe = 1.(?) ₂ .3	C ₁₄ H ₂₂ O	242-245	Liquid	Mazzara	G. I., 12, 505; B., 16, 793	44, 463
Diisobutyl quinol	C ₆ H ₄ (O.CH ₂ .CHMe) ₂ = 1.4	C ₁₄ H ₂₂ O ₂	262	crystalline	Schubert	M. C., 3, 681	44, 60
" ?	....	"	....	128	....	Z. C. [1867], 632	
Diethyl ?-ate	....	C ₁₄ H ₂₂ O ₄	247-250	....	Ballo	B., 14, 336	
" ?	....	"	257-260	....	....	A., 215, 42	
Triethyl allylethenyltricarboxylate	(COOEt) ₂ .CH.CH(C ₃ H ₅).COOEt or (COOEt) ₂ .C(C ₃ H ₅).CH ₂ .COOEt	C ₁₄ H ₂₂ O ₆	282-283	....	Hjelt	B., 16, 333	44, 656
" acetotricarballylate	C ₆ H ₅ .OAc.(COOEt) ₃	C ₁₄ H ₂₂ O ₇	280-300	Liquid	Miehle	A., 190, 323	34, 491
Oxypeucedanin	....	"	....	140	....	A., 176, 78; J. [1849], 476	
Triethyl acetyl citrate	C ₃ H ₄ .OAc.(COOEt) ₃	C ₁₄ H ₂₂ O ₈	288 c.	l. — 20	Wislicenus	A., 129, 193	vi., 473
Diethyl succino-dilactate	C ₂ H ₂ (C ₃ H ₄ O ₂) ₂ .(COOEt) ₂	"	250-270	....	Wurtz and Friedel	J. [1861], 378	iii., 462
" " "	....	"	300-304 (729)	....	Wislicenus	A., 133, 262	vi., 773
			280				

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tetrethyl acetylenetetra-carboxylate	(COOEt) ₂ .CH.CH(COOEt) ₂	C ₁₄ H ₂₂ O ₈	305 p. d.	75	Conrad and Bischoff	B., 13, 601	38, 629
" " "	" "	"	305 p. d.	76	Conrad and Guthzeit	A., 214, 68; B., 16, 2631	44, 46; 46, 297
Dipropyl diacetyldextrotar-tarate	[CH(OAc).COOPr ^a] ₂	"	313	31	Anschutz	B., 14, 2789	42, 831
" " "	"	"	313	31	Pictet	B., 15, 2243	
Lactucone (see C ₄₀ H ₆₆ O ₃)	....	C ₁₄ H ₂₄ O	....	296	Franchimont and Wigman	B., 12, 10	38, 469
Suberone ....	....	C ₁₄ H ₂₄ O ₂	176	Liquid	....	....	v., 450
Myristolic acid ....	....	"	....	12	Masino	A., 202, 175; G. I., 10, 72	38, 460
Lichenstearic acid ....	....	C ₁₄ H ₂₄ O ₃	....	abt. 120	Schnedermann and Knop	A., 55, 150	iii., 588
Diethyl camphorate	C ₃ H ₁₄ (COOEt) ₂	C ₁₄ H ₂₄ O ₄	285-287	Liquid	Malaguti	A. C., 64, 152	i., 731
" paracamphorate	"	"	270-275	....	Chautard	A., 127, 124; J., 16, 395	
Triethyl propylethenyl-tricarboxylate	CHPr ^a (COOEt).CH(COOEt) ₂	C ₁₄ H ₂₄ O ₆	276-278	Liquid	Roser	A., 220, 271	46, 423
" " "	CH ₂ (COOEt).CPr ^a (COOEt) ₂	"	280 p. d.	Liquid	Waltz	B., 15, 608; A., 214, 58	42, 948; 44, 46
Tetraethyl citrate	C ₃ H ₄ .OEt(COOEt) ₃	C ₁₄ H ₂₄ O ₇	290 d.	Liquid	Conen	B., 12, 1654	38, 36
Hexylpentylacrylic aldehyde	Me(CH ₂) ₅ .CH : C(COH). (CH ₂) ₄ .Me	C ₁₄ H ₂₆ O	277-279; 276-280; 275-280	l. -20	Perkin	B., 15, 2804, 2806; 16, 1034	43, 49, 51, 81
?	....	"	240	....	....	Z. C. [1870], 76	
Hexylpentylacrylic acid	Me(CH ₂) ₅ .CH : C(COOH). (CH ₂) ₄ .Me	C ₁₄ H ₂₆ O ₂	275-280(250); 270-290(200)	Liquid	Perkin	B., 15, 2803; 16, 211	43, 48, 62
Menthyl butyrate	C ₃ H ₇ .COO(C ₁₀ H ₁₉)	"	230-240	....	....	A., 120, 351	iii., 881
Ethyl diisobutylacetoac-etate	(CHMe ₂ .CH ₂) ₂ .CAc.COOEt	C ₁₄ H ₂₆ O ₃	250-253	....	Mixter	B., 7, 501	27, 784
Ethyl octylacetoacetate	CHAc(C ₈ H ₁₇).COOEt	"	280-282 u. c.	Liquid	Guthzeit	A., 204, 2	38, 872
(Enanthyl anhydride	[CH ₃ (CH ₂) ₅ .CO] ₂ O	"	268-271	Liquid	Mehlis	A., 185, 371	34, 135
Diethyl sebate	C ₈ H ₁₆ (COOEt) ₂	C ₁₄ H ₂₆ O ₄	307-308	-3.5	Neison	C. N., 32, 298; J. [1876], 576	29, 318
" "	"	"	307-308 c.	....	Perkin	....	45, 518
" "	"	"	308	....	Carlet	C. R., 37, 129	29, 318
" " ....	"	"	....	-9	Redtenbacher	A., 35, 193	v., 214
" heptylmalonate	C ₇ H ₁₅ .CH(COOEt) ₂	"	263-265	....	Venable	B., 13, 1651	
Diisoamyl succinate	COOC ₆ H ₁₁ (CH ₂) ₂ :COOC ₆ H ₁₁	"	289.9 c. (728)	l. -16	Guareschi and Debzanna	B., 12, 1699	
Acetyl dimannitan	C ₁₂ H ₂₃ AcO ₁₀	C ₁₄ H ₂₆ O ₁₁	....	120	Grange	C. R., 68, 1326	vi., 806
Hexylpentylacryl alcohol	Me.(CH ₂) ₅ .CH : C(CH ₂ .OH). (CH ₂) ₄ .Me	C ₁₄ H ₂₆ O	282-290; 280-283; 280-290; 280-283	l. -20	Perkin	B., 15, 2810; 16, 211, 1029	43, 53, 55, 63, 68
Myristic aldehyde ....	....	"	168-169 (22); 214-215(100)	52.5	Krafft	B., 13, 1415	38, 867
Heptyl pentyl acetaldehyde	Me.(CH ₂) ₆ .CH(COH).(CH ₂) ₄ . Me	"	266-268	29.5	Perkin	B., 16, 1030	43, 71
Duodecyl methylketone	Me.CO.(CH ₂) ₁₁ .Me	"	205-206 (100)	33-34	Krafft	B., 15, 1708	42, 1272
From œnanthyl aldehyde ....	....	"	220 d.	Liquid	Tilley	J., 1, 566; A., 67, 111	43, 46
Amyl valerone ....	....	"	208-209	....	Fröhlich, Geuther, and Looss	A., 202, 301	38, 623
Duodecyl acetate	CH ₃ (CH ₂) ₁₀ .CH ₂ .OAc	C ₁₄ H ₂₈ O ₂	150.5-151.5 (15)	Liquid	Krafft	B., 16, 1719	44, 1076
Octyl caproate	CH ₃ (CH ₂) ₄ .COO.(CH ₂) ₇ .CH ₃	"	268-271	....	Zincké	A., 152, 18	vi., 697, 879

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Heptylic α -nanthylate	$\text{CH}_3(\text{CH}_2)_5\text{COO}(\text{CH}_2)_6\text{CH}_3$	$\text{C}_{14}\text{H}_{28}\text{O}_2$	270-272 (760)	Liquid	Cross	B., 10, 1602	32, 127
" "	"	"	276-278 c.	....	Perkin	....	45, 503
Ethyl laurate	$\text{C}_{11}\text{H}_{23}\text{COOEt}$	"	264 p. d.	s. -10	Görgey	A., 66, 303	iii., 475
" "	"	"	269 (750)	....	Delffs	A., 92, 278; J., 7, 26	"
Heptylpentylacetic acid	$\text{Me}(\text{CH}_2)_6\text{CH}(\text{COOH})(\text{CH}_2)_5\text{Me}$	"	300-310	Liquid	Perkin	B., 16, 1031	43, 74
Myristic acid ....	....	"	....	49	Reichardt	A. P. [3], 10, 339	32, 518
" " ....	....	"	....	49	Fehling	A., 53, 399	i., 1064
" " ....	....	"	....	52	Flückiger	A. P. [3], 6, 481	30, 644
" "	$\text{CH}_3(\text{CH}_2)_{12}\text{COOH}$	"	248 (100)	53.5	Krafft	B., 12, 1669	38, 34
" "	"	"	248 (100)	53.8	"	B., 15, 1707	42, 1272
" " ....	....	"	....	53-54	Masino	G. I., 10, 72	38, 460
" " ....	....	"	....	53-54	Heintz	"	"
" " ....	....	"	....	53.8	Schlippe	J., 11, 303	"
" " ....	....	"	....	53	Oudemans	J., 13, 323	"
" " ....	....	"	....	53.5-54	Marasse	B., 2, 361	"
" " ....	....	"	....	53.8	Playfair	A., 37, 152	"
" " ....	....	"	....	53.8	Fehling	A., 53, 399	i., 1064
" "	$\text{C}_{13}\text{H}_{27}\text{COOH}$	"	....	53.8	Heintz	P. A.; J., 7, 456	iii., 1071
" " ....	....	"	....	54	Reichardt	A. P. [3], 10, 339	32, 518
" " ....	....	"	....	54.5	Flückiger	P. J. T. [3], iv., 36	28, 91
Ethyl diisomoxalate	$\text{C}(\text{C}_6\text{H}_{11})_2(\text{OH})\text{COOEt}$	$\text{C}_{14}\text{H}_{28}\text{O}_3$	262	Liquid	Frankland & Duppa	P. R. S.; A., 142, 9	iv., 276
Hydroxymyristic acid ....	....	"	....	51	Müller	B., 14, 2480	42, 497
Isobutyl diisobutylglyoxalate	$\text{CH}(\text{OCH}_2\text{Pr}^{\beta})_2\text{COOCH}_2\text{Pr}^{\beta}$	$\text{C}_{14}\text{H}_{28}\text{O}_4$	250-252	....	Pinner and Klein	B., 11, 1478	38, 47
Tetradecyl alcohol	$\text{CH}_3(\text{CH}_2)_{12}\text{CH}_2\text{OH}$	$\text{C}_{14}\text{H}_{30}\text{O}$	167 (15)	38	Krafft	B., 16, 1714	44, 1076
Heptylpentylethyl alcohol	$\text{Me}(\text{CH}_2)_6\text{CH}(\text{CH}_2\text{OH})(\text{CH}_2)_4\text{Me}$	"	270-275	s. -10	Perkin	B., 15, 2811; 16, 1032	43, 56, 76
From lactarius piperatus	Alcohol	"	....	36-37	Bissinger	A. P. [3], 21, 321	46, 480
Diisobutyl pinacone	$[\text{CMe}(\text{OH})\text{CH}_2\text{CH}_2\text{CHMe}_2]_2$	$\text{C}_{14}\text{H}_{30}\text{O}_2$	240-260	l. -13	Rohn	A., 190, 311	34, 486
" " ....	....	"	268	30	Purdie	....	39, 468
Butyrene "	$\text{CPr}^{\alpha}_2(\text{OH})\text{CPr}^{\alpha}_2(\text{OH})$	"	abt. 260	68	Kurtz	A., 161, 215	25, 411; vii., 229
Ethylidene oxyisoamyl alcoholate	$\text{C}_4\text{H}_9(\text{OC}_6\text{H}_{11})_2\text{O}$	$\text{C}_{14}\text{H}_{30}\text{O}_3$	226	....	Laatsch	A., 218, 13	44, 788
Amylic dibutyl orthoformate	$\text{CH}(\text{OC}_4\text{H}_9)_2(\text{OC}_5\text{H}_{11})$	"	230-235	....	Pinner	B., 16, 1647	44, 1089
Propyl diamylic "	$\text{CH}(\text{OC}_5\text{H}_{11})_2(\text{OPr})$	"	254-255	....	"	"	"
Pentamethylethol hydrate	$2(\text{CMe}_3\text{CMe}_2\text{OH}) + \text{H}_2\text{O}$	$\text{C}_{14}\text{H}_{34}\text{O}_3$	see p. 184	75-76	Eltekoff	B., 11, 412	34, 482
" "	"	"	begins 100	83	Butlerow	A., 177, 176	28, 1248
" " ....	"	"	....	83	Kaschirski	C. C. [1881], 278	42, 37
Fluoranthene quinone	$\text{C}_6\text{H}_4\text{CH}=\text{CO}=\text{C}_6\text{H}_3$	$\text{C}_{16}\text{H}_8\text{O}_2$	....	188	Fittig & Liepmann	A., 200, 3	38, 401
" "	$\text{C}_6\text{H}_3-\text{CO}=\text{C}_6\text{H}_4$	"	....	188	Fittig and Gebhard	A., 193, 149	36, 166
" " ....	"	"	....	189	Goldschmidt	B., 10, 2029	34, 155
Phenanthrene quinone carboxylic acid	$\text{C}_6\text{H}_4\text{COCO}(\text{COOH})\text{C}_6\text{H}_3$	$\text{C}_{15}\text{H}_8\text{O}_4$	....	a. 315	....	A., 196, 14	"
β -Anthraquinone carboxylic acid	$\text{C}_6\text{H}_4:(\text{CO})_2:\text{C}_6\text{H}_3\text{COOH}$	"	....	278-280	Ciamician	B., 11, 273	34, 439
" " ....	"	"	....	280	Liebermann	A., 183, 168	31, 610
" " ....	"	"	....	280	"	B., 8, 972	29, 251
" " ....	"	"	....	280	Hämmerschlag	B., 11, 82	34, 323
" " ....	"	"	....	282 u. c.	Weiler	B., 7, 1186	28, 152
" " ....	"	"	....	282-284	Liebermann and v. Rath	B., 8, 248	28, 763
" " ....	"	"	....	283-284	Fischer	B., 7, 1196	"
" " ....	"	"	....	285	Liebermann and Bischoff	B., 13, 49	38, 400
Hydroxyanthraquinone carboxylic acid	$\text{C}_6\text{H}_4:(\text{CO})_2:\text{C}_6\text{H}_2\text{OHCOOH}$ =1.2.3.4 (?)	$\text{C}_{15}\text{H}_8\text{O}_5$	....	260	Hämmerschlag	B., 11, 83	34, 323

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Purpuroxanthin carboxylic acid (munjistin)	$C_{14}H_5(OH)_2 \cdot O_2 \cdot COOH$	$C_{15}H_8O_6$	....	231	Schunck & Roemer	B., 10, 173	33, 423
" "	"	"	....	231	" "	B., 10, 791	32, 788
" "	"	"	....	231	" "	....	31, 667
" "	"	"	....	225-230	" "	....	31, 669
Alizarin carboxylic acid ....	"	"	....	305	Hammerschlag	B., 11, 86	34, 323
ϵ -Purpurin	<i>cf.</i> B., 10, 790, 2166	"	....	180	Rosenstiehl	C.R., 83, 560, 827; 84, 559	31, 209
Purpurin carboxylic acid (pseudopurpurin)	$C_{14}H_4(OH)_3 \cdot O_2 \cdot COOH$	$C_{15}H_8O_7$	....	218-220	Liebermann & Plath	B., 10, 1618	34, 77
Benzylidene phthalyl	$C_6H_4 : (CO)_2 : CHPh = 1.2$	$C_{15}H_{10}O_2$	....	98-99	Gabriel & Michael	B., 11, 1017	34, 735
Phenylcoumarin	$C_6H_4 \cdot CH : CPh \cdot CO \cdot O = 1.2$	"	....	139-140	Oglialoro	G. I., 9, 428; J. [1879], 731	38, 164
α -Phenanthrene carboxylic acid	$C_6H_4 \cdot CH : CH \cdot C_6H_3 \cdot COOH$	"	....	260	Japp and Schultz	B., 10, 1661	34, 77
α- " "	"	"	....	266	Japp	A., 196, 13	37, 83
β - " "	$C_6H_4 \cdot CH : C(COOH) \cdot C_6H_4$	"	....	250-252	"	....	37, 84
α -Anthracene-carboxylic acid	$C_6H_4 : C_2H(COOH) : C_6H_4$	"	....	206 p.d.	Græbe and Liebermann	B., 2, 678; A., 160, 121	vi., 180; 25, 139
β - " "	$C_6H_4 : C_2H_2 \cdot C_6H_3 \cdot COOH$	"	....	260; sf. 220-230	Liebermann and v. Rath	B., 8, 248	28, 763
γ- " "	"	"	....	<i>abt.</i> 280	Liebermann and Bischoff	B., 13, 49	38, 400
γ- " "	"	"	....	280	Börnstein	B., 16, 2609	46, 330
Methyl anthraquinone	$C_6H_4 : C_2O_2 : C_6H_3Me$	"	....	160-162	Wachendorff and Zincké	B., 10, 1485	34, 232
" "	"	"	....	162-163	O. Fischer	B., 8, 675	28, 1021
" "	"	"	....	177-179	Wachendorff and Zincké	B., 10, 1486	
" "	"	"	....	175-176	Börnstein	B., 15, 1820	44, 71
" "	"	"	....	177	Roemer and Link	B., 16, 696	44, 1138
Methanthraquinone ....	(?)	"	....	187	....	J. p. [2] 9, 421	
From Codeine	$C_6H_4 \cdot C_2O \cdot C_6H_3 \cdot OMe$	"	....	65	Gerichten and Schrötter	B., 15, 1487, 2179	42, 1113; 44, 222
Phenoxyethylenephthalyl	$C_6H_4 \cdot (CO)_2 : CH \cdot OPh = 1.2$	$C_{15}H_{10}O_3$	....	142-143.5	Gabriel	B., 14, 922	40, 733
β -Phenylumbelliferone	$C_6H_3(OH) \cdot CPh : CH \cdot CO \cdot O$	"	....	244	Pechmann and Duisberg	B., 16, 2119	46, 67
Hydroxymethylanthraquinone	$C_{14}H_6 : O_2 \cdot Me \cdot OH$	"	....	177-178	Roemer and Link	B., 16, 699	44, 1139
" "	"	"	....	260-262 d.	....	A., 202, 163	
Acetyl salicylresorcinol oxide	$O \cdot C_6H_4 \cdot CO \cdot C_6H_3 \cdot OAc = 1.2$; $O \cdot C_6H_4 \cdot CO \cdot C_6H_3 \cdot OAc = 1.2$;	$C_{16}H_{10}O_4$	....	167-168	Michael	A. C. J., 5, 81	46, 312
Benzhydrylisophthalic anhydride	$C_6H_3 \cdot (COOH) \cdot CO \cdot O \cdot CHPh$ $COOH \cdot CO = 1.3$	"	....	206-207	Blatzbecker	B., 9, 1764	31, 469
" "	"	"	....	206	Zincké	B., 5, 800	26, 272
Methyl quinizarin	$C_6H_4 : (CO)_2 : C_6HMe(OH)_2$ $= 1.2.4.3.6$	"	....	160	Nietzki	B., 10, 2012	34, 154
" alizarin	" $= 1.2.4.5.6$	"	....	250-252	O. Fischer	B., 8, 676	28, 1021
" " ....	"	"	....	250-252	Fraude	B., 12, 241	36, 635
Chrysophanic acid	$C_{14}H_5Me(OH)_2 : O_2$	"	....	162	Sadtler & Rowland	A. C. J., 3, 22	40, 1042
" " ....	"	"	....	162	....	A.	i., 959
Chrysin ....	"	"	....	275	Piccard	B., 6, 884	26, 1236
Benzoyl isophthalic acid	$C_6H_3(COOH)_2 \cdot Bz = 1.3?$	$C_{15}H_{10}O_5$	....	278-280	Blatzbecker	B., 9, 1762	31, 469
" " "	"	"	....	278-280	Zincké	B., 5, 800	26, 272
Benzoyltetraphthalic acid	" $= 1.4.5$	"	....	a. 290	....	J., 1878, 402	
" " "	"	"	....	n.f.	Weber and Zincké	B., 7, 1154	
Benzophenonedicarboxylic acid	$CO(C_6H_4 \cdot COOH)_2 = 1.4$; 1.4	"	....	a. 300	Ador and Craffts	B., 10, 2175	34, 405
Trioxymethylanthraquinone (emodin)	$C_{14}H_4 \cdot Me \cdot (OH)_3 : O_2$	"	....	245-250	Liebermann	A., 183, 161	31, 610
" "	"	"	....	257	Liebermann and Waldstein	B., 9, 1777	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Apigenin ....	....	$C_{16}H_{10}O_5$	....	292-295 d.	Gerichten	B., 9, 1124	
Galangin ....	....	"	....	214-215	Jahns	B., 14, 2807	
Methyltetraoxyanthraquinone (Aloëxanthin)	$C_{14}H_3Me(OH)_4 \cdot O_2$	$C_{16}H_{10}O_6$	....	partially 260-265	Tilden	J. [1877], 909	32, 266
Bezylidene acetophenone	$CHPh : CH.CO.Ph$	$C_{15}H_{12}O$	345-348 c.	57-58	Claisen & Claparède	B., 14, 2463	42, 512
Methanthrol ....	....	"	....	abt. 122	Oudemanns	B., 6, 1126 ; A., 170, 267	27, 73
Anthrol methyloxide	$C_6H_4 : C_2H_2 : C_6H_3.OMe$	"	....	175-178	Liebermann and Hagen	B., 15, 1427	42, 1212
Methylanthranol (?)	$C_6H_4 : C_2H(OH) : C_6H_3Me$	"	$C_{30}H_{22}O_2 ?$	217-218	Börnstein	B., 15, 1823	
Dibenzoylmethane	CH_2Bz_2	$C_{16}H_{12}O_2$	a. 200	81	Baeyer and Perkin	B., 16, 2135	46, 64
Phenylcinnamic acid	$Ph.CH : CPh.CO.OH$	"	....	169-170	Oglialoro	G. I., 8, 429	36, 640
Phenylhydroxyethylbenzoic anhydride	$Ph.CH_2.CH.C_6H_4.CO.O = 1.2$	"	....	56-57	Gabriel and Michael	B., 11, 1021	34, 736
Fluorenic acetate	$C_6H_4.C_6H_4.CH(OAc)$	"	....	75	Barbier	A. C. [5], 7, 506 ; C. R., 80, 1396	31, 73 ; 30, 78
Methyloxanthranol	$C_6H_4.CO.C_6H_4.CMe(OH)$	"	....	187	Liebermann and Landshoff	B., 14, 456	40, 609
"	"	"	....	187	Liebermann	A., 212, 75	42, 861
Dihydroanthracene carboxylic acid	$C_{14}H_{11}.COOH$	"	....	203	Börnstein	B., 16, 2612	46, 330
Benzoyl carbinol benzoate	$C_6H_5.CO.CH_2.OBz$	$C_{18}H_{12}O_3$	....	117-117.5	Hunäus and Zincké	B., 10, 1488	34, 224
" " "	"	"	....	117	Hunäus	B., 10, 2010	
Phenoxycinnamic acid	$C_6H_5.CH : C(OPh).CO.OH$	"	....	179-180	Oglialoro	G. I., 10, 481 ; J. [1880], 876	40, 277
Methylic benzoylbenzoate	$C_6H_4.Bz.CO.OMe = 1.2$	"	....	52	Plascuda	B., 7, 987	28, 75
" " "	" = 1.3	"	....	62	Senff	A., 220, 225	46, 428
" " "	" = 1.4	"	....	107	Plascuda	B., 7, 898	28, 75
Acetoxybenzophenone	$C_6H_4.Bz.OAc = 1.4$	"	....	81	Döbner and Stackmann	B., 10, 1970	34, 321
"	"	"	....	81	Döbner	A., 210, 251	42, 508
Desoxybenzoin carboxylic acid	$Ph.CH_2.CO.C_6H_4.CO.OH = 1.2$	"	....	74-75	Gabriel and Michael	B., 11, 1019	34, 735
Toluylobenzoic acid	$CH_3.C_6H_4.CO.C_6H_4.CO.OH = 1.4 ; 1.2$	"	....	146	Friedel and Crafts	C. R., 92, 833 ; B. S., 35, 505	40, 732
" " + H ₂ O	"	"	....	a. 100 +	"	"	"
" " "	"	"	....	222 u.c.	Weiler	B., 7, 1184	28, 151
" " "	"	"	....	222	Fischer	B., 7, 1195	
" " "	" = 1.4 ; 1.4	"	....	228	Ador and Crafts	B., 10, 2175	34, 405
Isohydrobenzoin carbonate ....	....	"	....	110	Wallach	J. p., 25, 262	42, 853
Phenyl p-coumaric acid	fr. $C_6H_4(OH).C_2H_2.CO.OH = 1.4$	"	....	219	Oglialoro	G. I., 13, 173	46, 176
Stilbous acid ....	....	"	....	360	Laurent	A. C. [2], 65, 193	v., 434
Pyroxanthin ....	....	"	....	162	Hill	A. C. J., 3, 332	42, 307
"	....	"	....	162	"	B., 10, 938	32, 747
Na on phenylic acetate ....	....	"	....	48	Perkin & Hodgkinson	....	37, 488
(?) acid ....	....	"	....	184-186	Bernthsen & Bender	B., 15, 1985	
Phenylic acetoxybenzoate	$C_6H_4.OAc.COOPh = 1.4$	$C_{16}H_{12}O_4$	....	84	Klepl	J. p., 28, 193	46, 448
Phenoxyacetophenone carboxylic acid	$COOH.C_6H_4.CO.CH_2.OPh = 1.2$	"	....	110-110.5	Gabriel	B., 14, 923	40, 733
Benzoyl-ethylenepyrogallol....	$C_6H_3(OBz) : O_2 : C_2H_4$	"	....	109	Magatti	B., 12, 1862	38, 250
Benzyl isophthalic acid	$C_6H_3(COOH)_2(CH_2Ph) = 1.3 ?$	"	....	242-243	Blatzhecker	B., 9, 1765	31, 469
Orcinol-o-carbonate ....	....	"	....	195 d.	Bender	B., 13, 700	40, 48
Dimethyleuxanthone	$C_{13}H_6.Me_2O_4$	"	....	130	Græbe and Ebrard	B., 15, 1677	42, 1301
Benzoylvanillic acid	$COOH.OMe.OBz = 1.3.4$	$C_{16}H_{12}O_6$	....	178	Tiemann and Kraaz	B., 15, 2068	
Diacetyl α-dioxyquinone	$C_{11}H_6O_2(OAc)_2$	$C_{15}H_{12}O_6$	....	238-240	Thörner	B., 11, 534	34, 575
Allylene-digallein ....	....	"	....	235 u. c.	Wittenberg	J. p. [2], 26, 68	42, 1289
Reduction of $C_{23}H_{22}O_3$	from hydrobenzoin	$(C_{15}H_{13}O_2)_n$	....	144-145.5	Breuer and Zincké	A., 198, 174 ; B., 11, 77	38, 118 ; 34, 321
Dibenzyl ketone	$CO(CH_2Ph)_2$	$C_{15}H_{14}O$	320-321	30	Popoff	B., 6, 560	vii., 941 ; 26, 1037

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Benzyltolyl ketone	$\text{CH}_2\text{Ph.CO.C}_6\text{H}_4\text{Me}=1.4$	$\text{C}_{15}\text{H}_{14}\text{O}$	a. 360	107.5	Mann	B., 16, 1646	40, 1034
Ditolyl ketone	$\text{CO}(\text{C}_6\text{H}_4.\text{Me})_2=(1.4)_2$	"	333-333.5 u. c. (725)	92 u. c.	Ador and Crafts	B., 10, 2174	34, 405
" " ....	" "	"	....	95 u. c.	Weiler	B., 7, 1184	28, 151
" " ....	" "	"	....	94	Fischer	B., 7, 1195	
" " ....	" "	"	....	94	Hepp	B., 7, 1414	
" " ....	" "	"	....	94	Haiss	B., 15, 1476	42, 1071
Phenylxylyl ketone	$\text{Ph.CO.C}_6\text{H}_3\text{Me}_2=1.3$	"	a. 350	Liquid	Söllscher	B., 15, 1682	42, 1292
Ethylidiphenyl ketone	$\text{Ph.CO.C}_6\text{H}_4\text{Et}=1.4$	"	a. 300	....	"	"	"
Methoxystilbene	$\text{C}_6\text{H}_4.\text{OMe}(\text{CH}:\text{CHPh})=1.4$	"	....	136	Oglialoro	G. I., 9, 533; J. [1879], 732	38, 253
Cynanchol (see $\text{C}_{15}\text{H}_{24}\text{O}$)	Mixture	"	....	135-145	Butlerow	A., 180, 349	30, 103
From Al paracresylate ....	....	"	307	168	Gladstone & Tribe	....	41, 9
" Al metacresylate ....	....	"	....	200	" "	....	41, 14
Octylic benzoate	$\text{C}_8\text{H}_5.\text{COOC}_8\text{H}_{17}$	$\text{C}_{15}\text{H}_{14}\text{O}_2$	305-306	....	....	A., 152, 7	
Benzyl phenylacetate	$\text{Ph.CH}_2.\text{COO.CH}_2\text{Ph}$	"	s. a. 300; 270 (160)	Liquid	Hodgkinson	....	37, 485
" "	"	"	317-319	Liquid	Slawik	B., 7, 1056	28, 59
Diphenylcarbinol acetate	$\text{Ph}_2\text{CH.OAc}$	"	310	Liquid	Friedel and Balsohn	B. S. [2], 33, 340	38, 559
" "	"	"	301-302(731)	1.-15	Linnemann	A., 133, 20	iv., 479
" "	"	"	300	41.5	Vincent	B. S. [2], 35, 304	40, 596
Phenylbenzylacetic acid	$\text{Ph.CH}_2.\text{CHPh.COOH}$	"	....	84	Wurtz	C. R., 70, 350	vii., 427
" " ....	"	"	....	84	"	C. R., 68, 1298	36, 641
Diphenylmethylacetic acid	$\text{CPh}_2\text{Me.COOH}$	"	....	173; a. f. 169-172	Thörner and Zincké	B., 11, 1993	36, 322
" "	"	"	a. 300	171-172	Böttiger	B., 14, 1596	
Benzylphenol acetate	$\text{C}_6\text{H}_5.\text{CH}_2.\text{C}_6\text{H}_4.\text{OAc}$	"	315-320	....	Perkin and Hodgkinson	....	37, 723
" "	"	"	317	....	Paternò and Fileti	G. I., 3, 121, 251; J. [1873], 440	27, 371
Methylic benzylbenzoate	$\text{C}_6\text{H}_5.\text{CH}_2.\text{C}_6\text{H}_4.\text{COOMe}=1.2$	"	....	Liquid	Rotering & Zincké	B., 9, 633	30, 414
Ethylic phenylbenzoate	$\text{C}_6\text{H}_5.\text{C}_6\text{H}_4.\text{COOEt}=1.2$	"	300-305	1.-20	Schmitz	A., 193, 123	36, 164
" "	" =1.4	"	....	46	Dœbner	A., 172, 114	27, 893
Tolylphenylacetic acid	$\text{CH}_3.\text{C}_6\text{H}_4.\text{CHPh.COOH}=1.4$	"	....	115	Tanisch	B., 10, 996	32, 618
Tetrahydroanthracene carboxylic acid	$\text{C}_{14}\text{H}_{13}.\text{COOH}$	"	....	164-165	Börnstein	B., 16, 2612	46, 330
Tolylene alcohol monobenzoate	$\text{C}_6\text{H}_4.\text{CH}_2\text{OH.CH}_2\text{OBz}=1.4$	$\text{C}_{15}\text{H}_{14}\text{O}_3$	....	73-74	Grimaux	A., 155, 341; C. R., 70, 1363	vii., 1209
Methylic benzhydrylbenzoate	$\text{C}_6\text{H}_4.\text{CHPh}(\text{OH}).\text{COOMe}=1.4$	"	....	109-110	....	J. [1875], 599	
" benzylsalicylate	$\text{C}_6\text{H}_4.\text{OCH}_2\text{Ph.COOMe}=1.2$	"	....	a. 320	Perkin	A., 148, 27	
Benzyl phenoxyacetic acid	$\text{CH}_2\text{Ph.C}_6\text{H}_4.\text{O.CH}_2.\text{COOH}$	"	....	100	Mazzara	G. I., 11, 437	42, 404
Dimethoxybenzophenone	$\text{CO}(\text{C}_6\text{H}_4.\text{OMe})_2=(1.4)_2$	"	....	144	Bösler	B., 14, 328	40, 422
Ethoxyhydroxybenzophenone	$\text{C}_6\text{H}_4(\text{OH}).\text{CO.C}_6\text{H}_4.\text{OEt}=(1.4)_2$	"	....	146-147	Gail	A., 194, 337	36, 326
Dimethyldihydroxybenzophenone	$\text{CO}(\text{C}_6\text{H}_3.\text{Me.OH})_2=(1.4)_2$	"	....	104-105	Drewsen	A., 212, 344	42, 1099
Phenylmelilotic acid....	$\text{C}_8\text{H}_8\text{PhO.COOH}$	"	....	120	Sardo	G. I., 13, 273	46, 176
" " ....	"	"	....	120	Oglialoro	G. I., 9, 428	38, 164
Benzylcresotic acid	$\text{Me.OH.CH}_2\text{Ph.COOH}=1.4.(?)_2$	"	....	164-166	Paternò & Mazzaro	G. I., 8, 303; B., 11, 2030	36, 315
Lapachic acid....	$\text{C}_{16}\text{H}_4(\text{C}_6\text{H}_5): \text{O.OH}$	"	....	138	Paternò	G. I., 12, 337; B., 16, 800	44, 210
HNO_3 on lapachic acid ....	....	" (?)	....	116-117	"	" "	44, 213
Diphenylpropionic acid	$\text{C}_2\text{H}_3\text{Ph}_2.\text{COOH}$	$\text{C}_{15}\text{H}_{14}\text{O}_4$	....	268	Böttiger	B., 16, 2072	46, 55
Ethylene phenoloxylbenzoate	$\text{PhO.C}_2\text{H}_4.\text{O.C}_6\text{H}_4.\text{COOH}$	"	....	196	Wagner	Jp. [2], 27, 227; 28, 199	46, 437
Benzoyldimethylpyrogallol	$\text{C}_6\text{H}_3(\text{OMe})_2.\text{OBz}$	"	....	118	Hofmann	B., 12, 1373	
Hydrocotoïn ....	....	"	....	98	....	A., 199, 57	
Santalin (santalac acid)	$\text{C}_{17}\text{H}_{16}\text{O}_6 (?)$	$\text{C}_{15}\text{H}_{14}\text{O}_6$	....	104	Westermann and Häffely	A., 74, 226	v., 187
Phloretin ....	....	"	....	180	Stas	A., 30, 201	iv., 492

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Phloretin	$C_{15}H_{11}O_6$ (?)	$C_{15}H_{14}O_6$	....	253-255	Schiff	B., 14, 302	40, 439
Catechuic acid ....	....	$C_{15}H_{14}O_7$	....	160-165	Löwe	Z.A.C. [1874], 113	28, 75
Dipyrogallopropionic acid ....	....	$C_{16}H_{14}O_8$	....	162	Böttlinger	B., 16, 2405	46, 318
Diphenyl carbinolethyl oxide	$Ph_2CH.OEt$	$C_{16}H_{16}O$	183 (736)	Liquid	Linnemann	A., 133, 17	iv., 479
" " "	"	"	288	Liquid	Friedel and Balsohn	B. S. [2], 33, 337	38, 558
" " "	"	"	....	120	Zagoumeny	B. S. [2], 26, 452	31, 460
Tolylbenzylcarbinol	$CH_2Ph.CH(OH).C_6H_4.Me$ =1.4	"	a. 360	66	Mann	B., 14, 1646	40, 1035
Ditolylcarbinol	$(CH_3.C_6H_4)_2.CH.OH$	"	....	69	Weiler	B., 7, 1184	28, 151
Dimethoxydiphenylmethane	$CH_2(C_6H_4.OMe)_2=1.4$; ?	$C_{15}H_{16}O_2$	330-340	49	Beck	A., 194, 323	36, 325
" " "	" = ?	"	a. 360	52	ter Meer	B., 7, 1200	28, 158
Hexhydroanthracene carboxylic acid	$C_{14}H_{15}.COOH$	"	....	232	Börnstein	B., 16, 2613	46, 330
Hydrolapachic acid ....	....	$C_{15}H_{16}O_3$ (?)	....	100	Paternò	G. I., 22, 337	44, 212
Ethylcinnamylacetoacetate	$Ph.CH:CH.CO.CHAc.CO.OEt$	$C_{16}H_{16}O_4$	....	40	Fischer and Kuzel	B., 16, 166	44, 588
α -Triethylösculetic acid	$C_6H_2(OEt)_3(CH:CH.CO.OH)$	"	....	102-103	Will	B., 16, 2111	46, 68
β- " " "	"	"	....	144	"	B., 16, 2109	"
Diacetyl usneol	$C_{11}H_{10}Ac_2O_3$	$C_{16}H_{16}O_5$	....	141-142	Paternò	G. I. [1882], 231	42, 1082
Decarbusnic acid ....	....	"	....	175	"	B., 9, 345	30, 202
" " "	....	"	....	198-199	"	G. I. [1882], 231	42, 1080
Hydrocerculignone	See $C_{16}H_{18}O_6$	$C_{15}H_{16}O_6$	....	190	Liebermann	B., 5, 748	26, 71
Picrotoxin	See $C_{12}H_{14}O_5$	"	....	201	Barth and Kretschy	B., 13, 1243	
" ....	....	"	....	200-201	Schmidt & Löwenhardt	B., 14, 819	
" ....	....	"	....	199-200	Paternò & Ogialoro	B., 10, 83	
" (polymer) ....	....	"	....	225	Schmidt & Löwenhardt	B., 14, 818	40, 741
Picrotoxid ....	....	"	....	310	Paternò & Ogialoro	B., 10, 83	
Aloin	$C_{15}H_{17}O$; $C_{16}H_{18}O_7$?	$C_{15}H_{16}O_7$	....	146-148	Schmidt	A. P. [3], 6, 496	30, 641
"	$C_{17}H_{18}O_7$ ?	"	....	150	Stenhouse	....	"
" + xaq ....	....	"	....	70-80	Schmidt	A. P. [3], 6, 496	"
Quercitrin	See $C_{36}H_{38}O_{20}$	$C_{15}H_{16}O_9$	....	130-133	Löwe	Z. A. C., 14, 233	29, 708
Ösculin ....	....	"	....	205	Schiff	B., 13, 1952	
" ....	....	"	....	204.2-205	"	B., 14, 303	40, 439
Daphnin + 2H ₂ O ....	....	"	....	100 d.	....	A., 115, 1	
Aloin	See $C_{15}H_{16}O_7$	$(C_{16}H_{17}O)_n$	....	....	
Santanol	Isomeric	$C_{15}H_{18}O$	....	Liquid	St. Martin	C. R., 75, 1190; J. [1872], 808	26, 162
"	"	"	abt. 350	135	"	"	"
Ethylcinnamylethylacetate	$Ph.CH:CH.CO.CHEt.CO.OEt$	$C_{16}H_{18}O_3$	210 (22)	Liquid	Matthews	....	43, 207
Parasantonide ....	....	"	....	110	Nasini	B., 14, 1512	
" ....	....	"	....	110-110.5	Cannizzaro & Valente	J. [1878], 826; G. I., 8, 309	36, 331
Santonide ....	....	"	....	127-127.5	" "	"	"
α -Metasantonin ....	....	"	....	160.5	Cannizzaro and Carnelutti	J. [1878], 828; G. I., 8, 318	36, 330
" ....	....	"	238-240 (10)	160.5	Cannizzaro and Amato	B., 7, 1105	28, 163
" ....	....	"	....	160.5	Carnelutti and Nasini	B., 13, 2210	40, 181
" ....	....	"	....	160.5	Cannizzaro and Carnelutti	G. I., 10, 461	40, 285
β- " ....	....	"	....	136	Carnelutti and Nasini	B., 13, 2210	40, 181
" ....	....	"	....	136	Cannizzaro and Carnelutti	G. I. 10, 461; J. [1878], 828	40, 285
" ....	....	"	....	136	....	....	v., 189
" ....	....	"	....	136	Cannizzaro and Carnelutti	G. I., 8, 318	36, 330
" ....	....	"	....	135-136	Trommsdorff	A., 11, 190	
Isosantonin ....	....	"	....	137-138	Cannizzaro	J. [1880], 894	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Santonin ....	....	$C_{15}H_{18}O_3$	....	170	Cannizzaro and Sestini	G. I., 3, 241; B., 6, 1201	26, 1230; vii., 1074
" ....	....	"	....	169-170	Schmidt	G. J. C. [1865]	
" ....	....	"	....	170	German Pharmacopœia	1882	
Triethoxyphenylpropionic acid	$C_6H_2(OEt)_3(CH_2CH_2COOH)$	$C_{15}H_{18}O_4$	....	77	Will	B., 16, 2111	46, 68
Resin from Rottlera tinctoria	....	"	....	80	Leube	J. [1860], 562	v., 118
Triethylic trimesitate	$C_6H_3(COOEt)_3=1.3.5$	$C_{15}H_{18}O_6$	....	129-133	Ost	J. p. [2], 15, 314	32, 486
Diethylic benzoracetate	$C_2H_2(OH)(OBz)(COOEt)_2$	$C_{15}H_{18}O_7$	....	57	Perkin	As., 5, 278	v., 693; 20, 139
" benzotartrate ....	"	"	....	64	"	As., 5, 276	"
Triethylic phenoltricarboxylate	$C_6H_2.OH.(COOEt)_3=1.2.(?)_2$	"	....	84	Ost	J. p. [2], 14, 117	30, 523
Picrotoxinin (picrotoxin hydrate)	$C_{15}H_{16}O_6 + H_2O$	"	....	200-201	Schmidt and Lowenhardt	B., 14, 819	40, 740
" " "	"	"	....	201 p.d.	Barth and Kretschy	W. A., 8, 7	40, 286
" " "	"	"	....	246-248 d.	Paternò & Oglialoro	G. I., 7, 193	32, 790
Tetracetyl quinide	$C_7H_5Ac_4O_5$	$C_{15}H_{18}O_9$	....	124	Hesse	A., 200, 233	38, 317
Alantic anhydride ....	....	$C_{15}H_{20}O_2$	275 p.d.	66	Kallen	B., 9, 155	29, 917
Ethylic ethylbenzylacetate	$C_6H_5.CH_2.CEtAc.COEOEt$	$C_{15}H_{20}O_3$	295-298	Liquid	Conrad	B., 11, 1057	34, 732
Hydrosantonide ....	....	"	....	155-156	Cannizzaro & Valente	G. I., 8, 309; J. [1878], 827	36, 332
Isosantonous acid ....	....	"	....	155	Cannizzaro and Carnelutti	B., 12, 1575	
" " ....	....	"	150-160 (4)	153-155	" "	G. I., 12, 393; B., 16, 428	44, 77
Santonous acid ....	....	"	200-260 (5)	178-179	" "	"	"
" " ....	....	"	....	178-179	" "	B., 12, 1574	
Pipitzahoïn acid ....	....	"	....	100	....	A., 95, 188	
Diethylic benzylmethylmalonate	$Ph.CH_2.CMe(COOEt)_2$	$C_{15}H_{20}O_4$	300	....	Conrad & Bischoff	B., 13, 595; A., 204, 177	38, 628
Photosantonnic acid	$C_{13}H_{18}(COOH)_2$	"	....	153	Sestini	G. I., 6, 357	31, 472
" " + H_2O	....	"	....	125-130	Cannizzaro	G. I.	
Santonnic acid ....	....	"	....	161-163	Cannizzaro and Sestini	G. I., 3, 241; B., 6, 1201	26, 1230; vii., 1074
" " ....	....	"	....	171	Hooslef	B., 6, 1471	vii., 1074
Metasantonnic acid ....	....	"	....	161-167	Cannizzaro	G. I., 6, 341	31, 471
Triethyl daphnetic acid ....	....	$C_{15}H_{20}O_6$	....	193	Will and Jung	B., 17, 1087	46, 1143
Diethylic orcyldiglycollate	$C_6H_5Me(O.CH_2.COEOEt)_2$	$C_{16}H_{20}O_6$	....	107	Saarbach	J. p. [2], 21, 167	38, 394
Pentic acid	$3C_5H_6O_2 + H_2O$	$C_{15}H_{20}O_7$	....	127-128	Demarçay	C. R., 88, 126	36, 457
" " ....	"	"	....	128	"	B. S. [2], 33, 575	40, 255
Oxypentic acid	$3C_5H_6O_3 + H_2O$	$C_{15}H_{20}O_{10}$	....	193	"	C. R., 88, 289	36, 458
Isoamyleugenol	$(CH_2.CH : CH_2).OMe.$ $OC_6H_{11}=1.3.4$ or $1.4.3$	$C_{15}H_{22}O_2$	283-285	....	Cahours	C. R., 84, 151; J. [1877], 581	31, 462
Acetyl diisopropyl cresol	$C_6H_2.Me.Pr^2.OAc=1.(?)_2.3$	"	255-260	l. f. m.	Mazzara	G. I., 12, 505; B., 16, 793	44, 463
" dipropyl cresol	$C_6H_2.Me.Pr^2.OAc=1.(?)_2.3$	"	255-260	Liquid	"	"	"
Cyclamiretin ....	....	"	....	198	....	A., 185, 218	
HCl on sylvane ....	....	"	235-245	....	Atterberg	B., 13, 881	38, 663
Alantic acid	$C_{14}H_{20}.OH.COOH$	$C_{15}H_{22}O_3$	....	90-91 d.	Kallen	B., 9, 155	29, 917
Laserpetin ....	....	$C_{15}H_{22}O_4$	....	118	Külz	A. P. [3], 21, 161	46, 182
Hydrosantonnic acid ....	....	"	....	170 d.	Cannizzaro	G. I., 6, 341; J., [1876], 619	31, 470
Triethoxyphenylpropionic acid	$C_6H_2(OEt)_3.C_2H_4.COOH$	$C_{15}H_{22}O_6$	....	85	Will and Jung	B., 17, 1087	46, 1143
Tetraethylic propylenetetra-carboxylate	$(COOEt)_2.CH.CH : C$ $(COOEt)_2$	$C_{15}H_{22}O_6$	270-280	Liquid	Conrad & Guthzeit	B., 15, 2842	44, 312
? — ketone	$CHEt_2.CO.C_3H_4.(C_2H_3)_3$	$C_{15}H_{24}O$	280-300	....	Geuther, Fröhlich, and Looss	A., 202, 312	38, 623
Alcoholic KHO on camphor	....	"	238-240 c.	....	Montgolfier	A. C. [5], 14, 5	34, 900
Amylthymol	$C_6H_3.Me.C_3H_7.OC_6H_{11}$	"	238-243 p. d.	Liquid	....	Z. C. [1869], 43	vi., 1090

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Euphorbone ....	....	$C_{18}H_{24}O$	....	113-114	Hesse	A., 192, 193	34, 801
From essence of sandal wood	....	"	300	....	Chapoteaut	B. S. [2], 37, 303; B., 15, 1197	44, 76
Santanal ....	....	"	30	....	"	"	"
Lactucone ....	....	"	150-200	....	....	A., 60, 83	....
α -Paracatol ....	....	"	220-222	....	....	A., 199, 79	....
Cynanchin ....	....	"	....	148-149	....	A., 180, 352; 182, 163; 192, 182	....
Cynanchocerin ....	....	"	....	145-146	....	"	"
Tetraethylic isoallylenetetra-carboxylate	$C(COOEt)_2(CH_2.COOEt)_2$	$C_{18}H_{24}O_8$	199-201(25); 293-296 p. d. (725)	Liquid	Böttinger	B., 13, 2164; A., 214, 62	40, 156
Isoamyl camphor	$C_{10}H_{16}.OC_5H_{11}$	$C_{18}H_{26}O$	277.5 c. (736); 272-275 u. c.	....	Baubigny	Z. C. [2], 4, 481; 7, 299	vi., 388
Cedar camphor ....	....	"	282	74	Walter	A. C. [3], 1, 498	i., 818
Cubebs camphor ....	....	"	....	65	Schmidt	B., 10, 189	....
" " ....	....	"	....	67	Schaer and Wyss	A. P., 206, 316	....
" " ....	....	"	....	68.7-70	Richter	Tabellen	....
Patchouli camphor	See $C_{15}H_{28}O$	"	296	54-55	Gal	B. S., 28, 414	....
Sesquiterpene hydrate	$C_{15}H_{24}.H_2O$	"	200-220	....	Beilstein & Wiegand	B., 15, 2855	44, 346
Santalol ....	....	"	310	....	Chapoteaut	B. S. [2], 37, 303; B., 15, 1197	44, 76
Diamenyl valeric acid	$C_4H_7(C_5H_9)_2.COOH$	$C_{18}H_{26}O_2$	300-306	....	Geuther, Frölich, and Looss	A., 202, 304	38, 623
Borneolisovalerate	$CHMe_2.CH_2.COOC_{10}H_{17}$	"	255-260	....	Bruylants	B., 11, 456	....
Ethylic phoronate	$CH_2.CMe_2.COOEt$ [$CMe.CH_2.CMe(COOEt).O$]	$C_{15}H_{26}O_5$	....	125	Pinner	B., 14, 1079	40, 797
Patchouli camphor	See $C_{15}H_{28}O$	$C_{15}H_{28}O$	282-294	Liquid	Gal	C. R., 68, 406	vi., 902
" " ....	....	"	296	54-55	"	"	"
" " ....	....	"	....	59	Montgolfier	C. R., 84, 88	31, 478
Beech nut oil ....	....	$C_{15}H_{28}O_2$	....	17	Lefort	C. R., 35, 734	i., 527
Cimicic acid	$C_{14}H_{27}.COOH$	"	....	43.8-44.2	Carius	A., 114, 151	i., 964
(?) ....	....	"	234-240 u. c.	....	Gäss and Hell	B., 8, 373	....
Isoamylic hydrogen sebate	$C_8H_{16}(COOC_5H_{11})(COOH)$	$C_{15}H_{28}O_4$	d. 325	s. 10	Neison	J. [1876], 577	29, 323
Tridecyl methyl ketone	$Me.CO.(CH_2)_{12}.Me$	$C_{15}H_{30}O$	294	39	Krafft	B., 12, 1669	38, 34
" " "	"	"	219 (100)	39	"	B., 15, 1708	42, 1272
Diheptyl ketone (caprylone)	$C_7H_{15}.CO.C_7H_{15}$	"	278	40	Guckelberger	J. 2, 340; A., 69, 201	....
(?) ketone ....	....	"	163-168	....	Geuther, Frölich, and Looss	A., 202, 327	38, 623
From Ficus gummiiflua	Alcohol	"	....	73	Kessel	B., 11, 2114	38, 262
Isoamylic isocaprinate	$C_9H_{19}.COOC_5H_{11}$	$C_{15}H_{30}O_2$	275-290 d.	Liquid	Grimm	A., 157, 269	24, 360; vii., 249
Pentadecylic acid	$CH_3(CH_2)_{13}.COOH$	"	257 (100)	51	Krafft	B., 12, 1671	38, 34
" "	"	"	257 (100)	51	"	B., 15, 1687	42, 1272
Benomargaric acid	$C_{14}H_{29}.COOH$	"	....	52-53	Walter	C. R., 22, 1143	i., 538
Cetic acid ....	"	" (?)	....	53.5	Heintz	P. A., 84, 232; 87, 553; J. 5, 505	i., 838
Isocetic acid ....	"	"	....	55	Bouis	C. R., 39, 923; J. 7, 463	iii., 414
Acid from oxidation of cholic acid	"	"	....	54	Tappeiner	Z. B., 12, 60	31, 213
" Lactarius piperatus	"	"	....	69-70	Bissinger	A. P. [3], 21, 321	46, 480
" Agaricus integer	"	"	....	69.5-70	Thörner	B., 12, 1631	38, 44
Lycostearone ....	....	"	....	75-76	....	A., 100, 302	....
Diamy valeral	$C_5H_{10}.(OC_5H_{11})_2$	$C_{18}H_{32}O_2$	240-255	Liquid	Alsberg	J., 17, 486	v., 974
α -Phenylenenaphthylene oxide quinone	....	$C_{16}H_8O_3$	....	140	Arx	B., 13, 1727; A., 209, 143	40, 282
Diphthalyl	$CO.C_6H_4.CO.CO.C_6H_4.CO$ = (1.2) ₂	$C_{16}H_8O_4$	....	a. 300 +	Ador	A. C. [4], 26, 417; A., 164, 229	vii., 979; 26, 67, 392

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diphthalyl	$\text{C}_6\text{H}_4 \begin{array}{c} \diagup \text{C} \diagdown \\ \text{COO} \quad \text{OOC} \end{array} \text{C}_6\text{H}_4 = (1.2)_2$	$\text{C}_{16}\text{H}_8\text{O}_4$	....	334-335	Græbe and Schmalzigany	B., 15, 1674	42, 1298
Diphthalic anhydride	$\text{C}_6\text{H}_4 \begin{array}{c} \diagup \text{CO.CO} \diagdown \\ \text{CO.O.CO} \end{array} \text{C}_6\text{H}_4$	$\text{C}_{16}\text{H}_8\text{O}_5$	....	228	Ador	A. C. [4], 26, 417	26, 393
Anthraquinone dicarboxylic acid	$\text{C}_{14}\text{H}_6 : \text{O}_2(\text{COOH})_2$	$\text{C}_{16}\text{H}_8\text{O}_6$	....	a. 300	Wachendorff and Zincké	B., 10, 1483	34, 232
Dioxydiphthalyl ....	....	"	....	250	....	A., 164, 246	
α -Naphthalene phenylene oxide	$\text{C}_6\text{H}_4 \cdot \text{O} \cdot \text{C}_{10}\text{H}_6$	$\text{C}_{16}\text{H}_{10}\text{O}$	a. 360 ; sb. 280	178	Arx	A., 209, 141 ; B., 13, 1726	40, 282
β- " " "	"	"	....	296	....	A., 209, 145	
β- " " "	"	"	....	300	Græbe and Knecht	A., 202, 15	38, 664
Idryl carboxylic acid	$\text{C}_{15}\text{H}_9\text{COOH}$	$\text{C}_{16}\text{H}_{10}\text{O}_2$	....	165	Goldschmidt	W. A., 81, 415	40, 284
Dibenzoyldicarbonyl....	....	"	....	202	Reimer	B., 14, 1806	42, 200
Quinone from ruficoccin ....	....	"	....	250	Liebermann and V. Dorp	A., 163, 97	25, 706 ; vii., 368
Diphenyltetrol quinone of $\text{C}_{16}\text{H}_{12}$	$\text{O.O.C} : \text{CPh.C} : \text{CPh}$	"	...	109-110	Breuer and Zincké	B., 11, 1404	34, 890
" (white)	β -modification	$(\text{C}_{16}\text{H}_{10}\text{O}_2)_n$	....	207.5	" "	B., 13, 634	38, 666
" " "	"	"	....	211-211.5	" "	B., 11, 1403	34, 890
" (yellow)	α -modification	"	....	225-229	" "	B., 13, 634	38, 666
" " "	"	"	....	abt. 240	" "	B., 11, 1403	34, 890
Diphenylmaleic anhydride	$\text{Ph}_2\text{C}_2 : (\text{CO})_2 : \text{O}$	$\text{C}_{16}\text{H}_{10}\text{O}_3$	Identical	156	Rugheimer	B., 15, 1626	42, 1298
Diphenylfumaric "	$\text{CPh} : \text{CPh.CO.O.CO}$	"	"	155	Reimer	B., 13, 743	40, 47
Hydroxydiphenyltetrolquinone	$\text{O.O.C} : \text{CPh.C} : \text{C.C}_6\text{H}_4\text{OH}$	"	...	143.5-144.5	Breuer and Zincké	B., 11, 1403, 1996	34, 890 ; 36, 327
Acid from diphthalylaldehydic acid	....	"	....	200-225	Ador	A., 164, 229	vii., 979 ; 26, 67
Acetoxyanthraquinone	$\text{C}_6\text{H}_4 : (\text{CO})_2 : \text{C}_6\text{H}_3\text{OAc} = 1.2 ; 1.2.4$	$\text{C}_{16}\text{H}_{10}\text{O}_4$	....	158	Liebermann	B., 5, 870	vii., 92 ; 26, 276
" ....	"	"	....	159	Liebermann and Hörmann	B., 12, 591 ; A., 212, 52	36, 654 ; 42, 859
"	" = 1.2 ; 1.2.3	"	....	176-179	Liebermann and Hagen	B., 15, 1804	
Methylantraquinone carbonic acid	$\text{C}_{14}\text{H}_6\text{Me.CO} : \text{O}_2$	"	....	244-246	Wachendorff and Zincké	B., 10, 1483	34, 232
? Anhydride ....	....	"	....	240	Ador	A., 164, 229	vii., 981 ; 26, 69
Benzoyldaphnetin	$\text{C}_9\text{H}_5\text{BzO}_4$	$\text{C}_{16}\text{H}_{10}\text{O}_5$	....	149-150	Stünkel	B., 12, 113	36, 469
Diphthalylaldehydic acid	$\text{CO.C}_6\text{H}_4\text{COH} = 1.2$	"	....	a. 300 d.	Ador	A. C. [4], 26, 417 ; A., 164, 233	vii., 979 ; 26, 67, 392
Diphthalic acid	$\text{CO.C}_6\text{H}_4\text{COOH} = 1.2$	$\text{C}_{16}\text{H}_{10}\text{O}_6$	....	265	"	A. C. [4], 26, 417 ; A., 164, 236	vii., 980 ; 26, 67, 393
Acetoxypurpurin ....	....	$\text{C}_{16}\text{H}_{10}\text{O}_7$ (?)	....	a. 240	Diehl	B., 11, 186	34, 430
From hydroxynaphthobenzoic acid	....	$\text{C}_{16}\text{H}_{12}\text{O}$	....	108	Walder	B., 16, 306	44, 666
Acetphenanthrol	$\text{C}_6\text{H}_4\text{CH} : \text{CH.C}_6\text{H}_3\text{OAc}$	$\text{C}_{16}\text{H}_{12}\text{O}_2$	....	117-118 u. c.	Rehs	B., 10, 1253	34, 77
Acetanthalrol	$\text{C}_6\text{H}_4 : \text{C}_2\text{H}_2 : \text{C}_6\text{H}_3\text{OAc}$	"	....	198	Liebermann and Hörmann	B., 12, 590 ; A., 212, 51	
Acetanthalrol	$\text{C}_6\text{H}_4 : \text{C}_2\text{H}(\text{OAc}) : \text{C}_6\text{H}_4$	"	....	126-131	Liebermann and Topf	B., 9, 1202 ; A., 212, 8	31, 86 ; 42, 856
Dimethylantraquinone ...	$\text{C}_{14}\text{H}_6\text{Me}_2 : \text{O}_2$	"	....	153	van Dorp	B., 5, 674 ; A., 169, 207	vii., 84 ; 25, 1007 ; 27, 63
" ....	"	"	....	155	Wachendorff and Zincké	B., 10, 1482	34, 232
From codethyline	$\text{C}_{14}\text{H}_7\text{O.OEt}$	"	....	59	Gerichten and Schrotter	B., 15, 2182	44, 222

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hydroxydiphenyltetrolquinol	$\text{C}(\text{OH}) : \text{CPh.C}(\text{OH}) : \text{C.C}_6\text{H}_4$ OH	$\text{C}_{16}\text{H}_{12}\text{O}_3$	....	72-73	Breuer and Zincké	B., 11, 1997	36, 327
Cresoxymethylenephthalyl	$\text{C}_6\text{H}_4 : (\text{CO})_2 : \text{CH.OC}_6\text{H}_4\text{Me}$ =1.2; 1.4	"	....	173-174	Gabriel	B., 14, 924	40, 733
Ethoxyanthraquinone	$\text{C}_6\text{H}_4 : (\text{CO})_2 : \text{C}_6\text{H}_3\text{.OEt}$	"	....	135	Liebermann & Hagen	B., 15, 1798	44, 73
Diphenylfumaric acid	$\text{Ph}_2 : \text{C}_2 : (\text{COOH})_2$	$\text{C}_{16}\text{H}_{12}\text{O}_4$	....	abt. 260	Rugheimer	B., 15, 1625	42, 1298
Dibenzoylacetic acid....	$\text{CHBz}_2\text{.COOH}$	"	....	109	Bayer and Perkin	B., 16, 2134	46, 64
Acetylic benzoylbenzoate	$\text{C}_6\text{H}_4\text{.Bz.COOAc} = 1.2$	"	....	112	Pechmann	B., 14, 1865	42, 184
Acetylsalicylorcinol oxide	$\text{CO.C}_6\text{H}_4\text{.O.C}_6\text{H}_2\text{Me.OAc}$ =1.2; ?	"	....	151-152	Michael	A. C. J., 5, 81	46, 312
Methylchrysin (tectochrysin)	....	"	....	130	Piccard	B., 6, 891	26, 1238
" "	$\text{C}_6\text{H}_3\text{.Me.OcOPh.OcOMe}$	"	....	163	"	B., 7, 891	27, 1166
" "	....	"	....	163-164	"	B., 10, 176	32, 342
Dimethyl xanthopurpurin	$\text{C}_6\text{H}_4 : (\text{CO})_2 : \text{C}_6\text{H}_2(\text{OMe})_2$ =2.1; 1.2.3.5	"	....	178-180	Plath	B., 9, 1204	31, 87
" anthraflavic acid....	$\text{C}_6\text{H}_3(\text{OMe}) : (\text{CO})_2 : \text{C}_6\text{H}_3$ (OMe)=4.2.1; 1.2.5	"	....	247-248	Schunck & Roemer	B., 9, 383	30, 89
Acetoxybenzoylhydroxybenzoic acid	$\text{C}_6\text{H}_4(\text{OAc}).\text{COOC}_6\text{H}_4.\text{COOH}$ =1.4; 1.4	$\text{C}_{16}\text{H}_{12}\text{O}_6$	....	216.5	Klepl	J. p., 28, 193	46, 448
Campheride ....	....	"	....	221-222	Jahns	B., 14, 2386	42, 201
Dimethyltetrahydroxyanthraquinone	$\text{C}_{14}\text{H}_2\text{Me}_2(\text{OH})_4 : \text{O}_2$	"	....	242; a. 300 a. s.	Brünner	M. C., 2, 466	40, 1142
Anthrol ethyl oxide	$\text{C}_6\text{H}_4 : \text{C}_2\text{H}_2 : \text{C}_6\text{H}_3\text{.OEt}$	$\text{C}_{16}\text{H}_{14}\text{O}$	....	139-140	Liebermann and Hörmann	B., 12, 591	36, 654
" " " ....	"	"	....	139-140	Liebermann	A., 212, 51	42, 859
" " " ....	"	"	....	145-146	Liebermann and Hagen	B., 15, 1427	42, 1212
Benzylic cinnamate	$\text{C}_6\text{H}_5\text{.CH} : \text{CH.COOCH}_2\text{.C}_6\text{H}_5$	$\text{C}_{16}\text{H}_{14}\text{O}_2$	305	l. -12 or -15	Plantamour	A., 26, 329; 30, 241	i., 980
" " "	"	"	340-350	....	Deville	B., 74, 230	"
" " "	"	"	340-350	....	Frémy	A. C., 70, 189	"
" " "	"	"	d. 350; 225-235 (?)	39	Grimaux	Z. C. [2], 5, 157	vi., 471
Dibenzyl glycollic anhydride	$(\text{C}_6\text{H}_5\text{CH}_2)_2\text{.C.CO.O}$	"	....	157	Spiegel	B., 14, 1689	40, 1036
Ethyl diphenylene acetate	$\text{C}_6\text{H}_4\text{.C}_6\text{H}_4\text{.CH.COOEt}$ =(1.2) ₂	"	....	165	Friedländer	B., 10, 536	32, 493
" fluorene	$\text{C}_6\text{H}_4\text{CH}_2\text{.C}_6\text{H}_4\text{.COOEt}$ =(1.2) ₂ .3	"	....	53.5	Fittig & Liepmann	A., 200, 16	38, 402
Phenanthrol ethyl oxide	$\text{C}_6\text{H}_4\text{.C}(\text{OEt}) : \text{C}(\text{OH}).\text{C}_6\text{H}_4$ =(1.2) ₂	"	....	80	Japp	B., 13, 761	37, 409
" " "	$\text{C}_{16}\text{H}_{14}\text{O}_2 + \text{Et.OH}$	"	d. 73	77	"	B., 12, 1307	
Oxanthrol ethyl oxide	$\text{C}_6\text{H}_4\text{.CO.C}_6\text{H}_4\text{.CH.OEt}$	"	....	106-107	Liebermann	B., 13, 1597	40, 100
Ethylloxanthranol	$\text{C}_6\text{H}_4\text{.CO.C}_6\text{H}_4\text{.CEt.OH}$	"	....	107	"	A., 212, 70	42, 861
Dioxyretistene ....	....	"	....	190	Ekstrand	A., 185, 98	32, 498
" " " ....	....	"	....	194-195	Wahlforss	Z. C. [2], 5, 74	vi., 994
Acetyl benzoin	$\text{C}_{14}\text{H}_{11}\text{AcO}_2$	$\text{C}_{16}\text{H}_{14}\text{O}_3$	....	b. 100	....	....	i., 559
" " " ....	"	"	....	75	....	A., 104, 120; 155, 92	
Ethyl benzoyl benzoate	$\text{C}_6\text{H}_4\text{.Bz.COOEt} = 1.4$	"	....	52	Plascuda	B., 7, 988	28, 75
" " "	" = 1.2	"	....	58	"	B., 7, 987	"
" " " ....	"	"	....	58	Plascuda & Zincké	B., 6, 906	26, 1225
Methoxyphenylcinnamic acid	$\text{C}_6\text{H}_4\text{.(OMe).CH} : \text{CPh.}$ COOH = 1.4	"	....	188-189	Oglialoro	G. I., 9, 533; J. [1879], 731	38, 253
Methyl toluy benzoate	$\text{CH}_3\text{.C}_6\text{H}_4\text{.CO.C}_6\text{H}_4\text{.COOMe}$ =1.4; 1.2	"	....	53	Friedel and Crafts	C. R., 92, 833	40, 732
Ethyl diphenyleneglycollate	$\text{C}_6\text{H}_4\text{.C}_6\text{H}_4\text{.C}(\text{OH}).\text{COOEt}$	"	....	92	Friedländer	B., 10, 534	32, 492

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Xyloylbenzoic acid	$C_6H_3Me_2.CO.C_6H_4.COOH$ =1.2,4; 1.2	$C_{16}H_{14}O_3$	....	161.5	Meyer	B., 15, 637	42, 848
" "	" =1.3,4; 1.2	"	....	126	"	B., 15, 637	"
" "	" =1.4,5; 1.2	"	....	easily	"	"	"
Acetoxyhydroanthrol (ortho)	$C_6H_4:(CH_2)_2:C_6H_2.OAc.OH$	"	....	136-138	Liebermann and Giessel	B., 10, 610	32, 494
" " ....	"	"	....	136-138	Liebermann	A., 212, 19	42, 856
Ethylene dibenzoate....	$C_6H_4.(OBz)_2$	$C_{16}H_{14}O_4$	a. 350	67	Simpson and Wurtz	A. C. [3], 55, 400	i., 553; ii., 568
Diphenylic succinate	$COOPh.CH_2.CH_2.COOPh$	"	330	118	Weselsky	B., 2, 519	vi., 1043
" " ....	"	"	....	119	Rasinski	J. p. [2], 26, 63	42, 1289
Dibenzyl oxalate	$(COO.CH_2Ph)_2$	"	....	80.5	Beilstein and Kuhlberg	Z. C. [2], 3, 467; A., 147, 341	vi., 336
Diphenylsuccinic acid	$COOH.CHPh.CHPh.COOH$	"	....	222	Franchimont	B., 5, 1050	26, 391
" " ....	"	"	....	222	Reimer	B., 14, 1802	42, 200
" " +H ₂ O	"	"	....	183	"	"	"
" " "	"	"	....	182	Franchimont	B., 5, 1050	"
" "	$CH_2Ph.CPh(COOH)_2$	"	....	229	Reimer	B., 14, 1802	42, 200
Diphenylethane dicarboxylic acid	From CH_3CHPh_2	"	....	275	Haiss	B., 15, 1481	42, 1071
Dimethylic diphenate	$(C_6H_4.COOMe)_2 = (1.2)_2$	"	....	73.5	Schultz	A., 203, 98	38, 814
" isodiphenate	" =1.2; 1.3	"	....	69.5	Fittig & Liepmann	A., 200, 10	38, 401
δ-Diacetoxy diphenyl	$(C_6H_4.OAc)_2 = ?$	"	....	94	Schmidt & Schultz	B., 12, 490	36, 652
" " ....	" "	"	....	94	Schultz, Schmidt, and Strasser	A., 207, 358	40, 912
" " ....	" "	"	....	94	" "	"	"
γ- " "	" = (1.4) ₂	"	....	159-160	Schmidt & Schultz	B., 12, 490	36, 652
" " ....	" "	"	....	159-160	" "	A., 207, 336	40, 910
Dimethoxybenzil (anisil)	$(MeO.C_6H_4.CO)_2 = (1.4)_2$	"	....	133	Bösler	B., 14, 327	40, 421
Anisic anhydride	$(C_6H_4.OMe.CO)_2O = (1.4)_2$	$C_{16}H_{14}O_5$	....	99	Pisani	A., 102, 284	i., 303
Acetyl oroselone	$C_6H_4(OAc).O.C_6H_4.OCH_2.CO$	"	....	123	Hlasiwetz & Weidel	A., 174, 81	28, 257
Helenin cf. C ₆ H ₈ O	$C_{21}H_{28}O_3 (?)$	"	....	72	Gerhardt	....	iii., 138; vi., 693
" " ....	"	"	....	75	Hoyer	V. p. P., 13, 544	" "
Ethylene salicylate	$[C_6H_4(OH).COO]_2 : C_2H_4$ = (1.2) ₂	$C_{16}H_{14}O_6$	....	83	Gilmer	A., 123, 277	v., 166
" salicylic acid	$C_2H_4(O.C_6H_4.COOH)_2 = (1.2)_2$	"	....	151-152	Weddige	J. p. [2], 20, 128	38, 317
Hydropiperoin	$C_7H_5O_2.(CH.OH)_2.C_7H_5O_2$	"	....	202	Fittig and Remsen	Z. C. [2], 6, 97	vi., 948
"	"	"	....	202	" "	A., 159, 131	24, 934
Isohydropiperoin	"	"	....	132-135	" "	A., 159, 135	24, 935
"	"	"	....	138; a.f. 135	" "	Z. C. [2], 6, 97	vi., 948
Hesperetin	$CH.COO.C_6H_3(OH)_2 = 1.3.5$ $CH.C_6H_3(OH)(OMe) = 1.3.4$	"	....	223	E. Hoffmann	B., 9, 687	30, 420
" " ....	"	"	....	226 d.	Tiemann and Will	B., 14, 951	40, 739
Hæmatoxylin + 3H ₂ O	See B., 4, 333	"	....	100-120	Richter	Tabellen	"
Lecanoric acid	"	$C_{16}H_{14}O_7$	....	153	Hesse	A., 139, 24	vi., 778
Diacetyl rhamnetin	$C_{12}H_8O_3(OAc)_2$	"	....	183-185	Liebermann and Hörmann	A., 196, 319; B., 11, 1618	36, 271
Diphenyl methyl acetone	$Ph_2MeC.CO.Me$	$C_{16}H_{16}O$	310-311 c.	41-41.5	Thörner and Zincké	B., 11, 1989	36, 317
Phenyldimethyl acetophenone	$C_6H_5.CO.CMe_2Ph (?)$	"	340-345 c.	70	Græbe	B., 7, 1626	26, 457
Ethylphenyl acetophenone	$Ph.CO.CH_2.C_6H_4.Et$	"	....	120	Radziszewsky	B., 6, 811	"
Ethyldeoxybenzoin....	$CH_2Ph.CO.C_6H_4.Et = 1.4$	"	....	64	Söllscher	B., 15, 1680	42, 1292
Dimethyldeoxybenzoin	$CH_2Ph.CO.C_6H_3.Me_2$	"	a. 350	92.5-93	"	B., 15, 1681	"
Benzoylmesitylene	$C_6H_2Me_3.Bz = 1.3.5.6$	"	a. 360	29	Louise	B., 16, 966; C. R., 96, 490	44, 577
Styrolene alcohol α-pinacolin	$CHPh.CH_2.O.CH_2.CHPh.O$ or $CHPh.CH_2.O.CHPh.CH_2.O$	$C_{16}H_{16}O_2$	260 (50)	Breuer and Zincké	B., 11, 1403; A., 216, 298	"

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Ethyl benzoin	$\text{CPh}_2(\text{OEt}).\text{CO.H}$ or $\text{CHPh}(\text{OEt}).\text{CO.Ph}$	$\text{C}_{16}\text{H}_{16}\text{O}_2$	95	Limpricht	A., 155, 97	vii., 169
Benzylc hydrocinnamate	$\text{Ph}(\text{CH}_2)_2.\text{COO.CH}_2\text{Ph}$	"	a. 300	....	Conrad and Hodgkinson	B., 10, 254	31, 590
" "	"	"	290-300	....	....	A., 193, 301	
Ethylc diphenylacetate	$\text{CHPh}_2.\text{COOEt}$	"	....	57-58	....	A., 171, 129	
Dibenzylacetic acid	$(\text{C}_6\text{H}_5.\text{CH}_2)_2.\text{CH.COOH}$	"	....	85	Sesemann	B., 6, 1086	27, 70; 28, 74
" " ....	"	"	....	85	Merz and Weith	B., 10, 759	32, 617
" " ....	"	"	....	85-86	Ehrlich	A., 187, 11	32, 439
Methylc tolylphenylacetate	$\text{Me.C}_6\text{H}_4.\text{CHPh.COOMe}=1.4$	"	....	Liquid	Tanisch	B., 10, 997	32, 618
Phenylc cuminate	$\text{C}_6\text{H}_4.\text{Pr.COOPh}$	"	....	57-58	Kraut; Williamson and Scrugham	A., 92, 318; J. [1858], 406	ii., 181
Ethylbenzylbenzoic acid (pyroamaric)	$\text{C}_6\text{H}_5.\text{CH}_2.\text{C}_6\text{H}_5.\text{Et.COOH}$	"	....	94	Zinin	B., 10, 1735	34, 153
Ethyl acetoxydiphenyl	$\text{AcO.C}_6\text{H}_4.\text{C}_6\text{H}_4.\text{Et}$	"	250 (9)	....	Mazzara	G. I., 9, 421; J. [1879], 521	38, 161
Benzyl acetoxytoluene	$\text{C}_6\text{H}_5.\text{Me.OAc.CH}_2\text{Ph}$	"	245-246 (34)	....	....	J. [1878], 591	
" "	" = 1.4	"	245 (40)	Liquid	Paternò & Mazzara	G. I., 8, 303	38, 315
Hydrobenzoin monacetate	$\text{C}_{14}\text{H}_{12}.\text{OH.OAc}$	$\text{C}_{16}\text{H}_{16}\text{O}_3$	....	77	Limpricht and Schwanert	A., 160, 190	25, 138; vii., 172
" " ....	"	"	....	84	Forst and Zincké	B., 7, 1714; A., 182, 274	28, 454; 30, 635
Isohydrobenzoin "	"	"	....	87-88	" "	B., 7, 1714; A., 182, 282	28, 454; 30, 636
Diphenylethoxyacetic acid (ethylbenzylc)	$\text{CPh}_2(\text{OEt}).\text{COOH}$	"	....	Liquid	Jena and Limpricht	A., 155, 100	vii., 158
Desoxyanisoin ....	....	"	....	95	Rossel	A., 151, 40; Z. C., [2], 5, 562	vi., 175, 543
Dibenzylglycollic acid (oxatolylic)	$(\text{C}_6\text{H}_5.\text{CH}_2)_2.\text{C}(\text{OH}).\text{COOH}$	"	....	154	Möller and Strecker	A., 113, 69	iv., 287; 40, 174
" " ....	"	"	....	156-157	Spiegel	B., 13, 2219	40, 174
Benzylphenoxy α -propionic acid	$\text{CH}_2\text{Ph.C}_6\text{H}_4.\text{O.CHMe.COOH}$	"	....	100-102	Mazzara	G. I., 1882, 261; B., 15, 1758	42, 1072
Methylbenzylphenoxyacetic acid	$\text{C}_6\text{H}_5.\text{Me.CH}_2\text{Ph}(\text{O.CH}_2.\text{COOH})=1.4 ?$	"	....	109-111	"	G. I., 11, 437	42, 404
From oxidation of retene ....	....	"	....	139	Ekstrand	A., 185, 109	32, 499
Reduction of anisic aldehyde	....	"	....	215	Samosadsky	Z. C. [2], 4, 645	vi., 175
Pencedanin (Imperatorin) ...	$\text{C}_6\text{H}_4(\text{OMe}).\text{O.C}_6\text{H}_4.\text{OCH}_2\text{Ac}$	$\text{C}_{16}\text{H}_{16}\text{O}_4$	$\text{C}_{12}\text{H}_{12}\text{O}_3 (?)$	81-82; a. f. 74-75	Hlasiwetz and Weidel	A., 174, 67	28, 257
" " ....	"	"	....	78	Richter	R. K. T.	
Anisoin	$[\text{C}(\text{OH}).\text{C}_6\text{H}_4.\text{OMe}]_2=(1.4)_2$	"	....	109-110	Rossel	Z. C. [2], 5, 562; A., 151, 33	vi., 175
" " ....	"	"	....	113	Bösler	B., 14, 327	40, 421
Benzoyldimethylhomopyrogallol	$\text{C}_6\text{H}_2\text{Me}(\text{OMe})_2.\text{OBz}$	"	....	118-119	Hofmann	B., 12, 1376	38, 249
Oxidation of dimethyltoluquinol	$\text{MeO.C}_7\text{H}_5.\text{O.O.C}_7\text{H}_5.\text{OMe}$	"	....	153 u. c.	Nietzki	B., 11, 1280; A., 215, 162	34, 868
Anisilic acid	$(\text{Me.O.C}_6\text{H}_4)_2.\text{C}(\text{OH}).\text{COOH}$	$\text{C}_{16}\text{H}_{16}\text{O}_5$	....	164	Bösler	B., 14, 327	40, 421
Acetyl pyrosnetic acid	$\text{C}_{14}\text{H}_{13}\text{AcO}_6$	$\text{C}_{16}\text{H}_{16}\text{O}_7$	....	168	Paternò	B., 15, 2241; G. I. [1882] 231	42, 1080
Ethylphenylbenzylcarbinol	$\text{Ph.CH}_2.\text{CH}(\text{OH}).\text{C}_6\text{H}_4.\text{Et}$	$\text{C}_{16}\text{H}_{18}\text{O}$	a. 350	....	Sollscher	B., 15, 1681	42, 1292
Cuminyphenol ....	....	"	300 (700)	....	....	J. [1875], 438	
Acetophenonepinacone	$\text{CMePh}(\text{OH}).\text{CMePh}(\text{OH})$	$\text{C}_{16}\text{H}_{16}\text{O}_2$	....	120	Emmerling & Engler	B., 4, 147; 6, 1005	
" " ....	"	"	....	120	Buchka	B., 10, 1714	
Dicresoxyethylene	$(\text{CH}_2.\text{O.C}_6\text{H}_4\text{Me})_2=(1.2)_2$	"	....	79	Stüdel	A., 217, 41; B., 14, 898	44, 585; 40, 723
" "	" = (1.4) ₂	"	297	134.5	Fuchs	B., 2, 625	
From anethol	$\text{C}_{14}\text{H}_{15}\text{O}(\text{OAc})$	$\text{C}_{16}\text{H}_{18}\text{O}_3$	near 40	Landolph	C. R., 82, 226; B., 13, 148	29, 705; 38, 385
KHO on anethol	"	87	"	C. R., 81, 97; B., 13, 147	29, 246; 38, 385

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Isohydranisoïn	$C_{16}H_{18}O_4$	110	Saytzeff	Z. C. [2], 3, 679	vi., 175
"	"	125	Samosadsky	Z. C. [2], 4, 644	"
Hydranisoïn ....	....	"	....	168	Saytzeff	Z. C. [2], 3, 678	"
" ....	....	"	....	172	Samosadsky	Z. C. [2], 4, 644	"
? quinol ....	....	"	....	173	Nietzki	B., 11, 1281	34, 869
Phthalylpinacone	$[CH(OH).C_6H_4.CH_2OH]_2$ =(1.2) ₂	"	....	197	Hessert	B., 10, 1448	34, 67
Atrolinic acid....	....	$C_{16}H_{18}O_5$	....	91	Paternò & Ogialoro	G. I., 7, 189	32, 786
Atraic acid ....	....	"	....	abt. 91	Paternò	B., 9, 346	30, 203
Hydrocœrulignone	$[C_6H_2(OH)(OMe)_2]_2$	$C_{16}H_{18}O_6$	....	190	Liebermann	A., 169, 226; B., 5, 746	vii., 376; 26, 71
Hydrovanilloïn	$[CH(OH).C_6H_3.OH.OMe]_2$ =(1.3.4) ₂ or (1.4.3) ₂	"	....	222-225 d.	Tiemann	B., 8, 1125	29, 75
Aloïn	see $C_{15}H_{16}O_7$	$C_{16}H_{18}O_7$	....	....	....	....	....
Sordidin	$C_{13}H_{10}O_8$	"	....	abt. 180	Paternò	B., 9, 346	30, 203
Diethylic diacetoxyphthalic acid	$(COOEt)_2.(OAc)_2=1.2.3.6$	$C_{16}H_{18}O_8$	....	150	Wedel	A., 219, 71	46, 834
Paviïn ....	....	$C_{16}H_{18}O_{10}$	....	190	Rochleder	J. p., 90, 433	iv., 357
Acetylostruthin ....	....	$(C_{16}H_{19}O_3)_n (?)$	....	78	Gorup-Besanez	A., 183, 330	31, 718
Hydrocarpol ....	....	$C_{16}H_{20}O$	220-230 i. v.	....	Oudemans	A., 170, 261; B., 6, 1126	27, 73
? ....	....	$C_{16}H_{20}O_3$	236-240	....	....	M. C., 1, 612	....
KHO on chloranethol ....	....	" (?)	268-270	1. - 35	Landolph	C. R., 82, 226; B., 13, 148	29, 705; 38, 385
From dragon's blood ....	....	$C_{16}H_{20}O_4$	236-240	Liquid	Bötsch	M. C., 1, 609	42, 210
Diethylic phenylacetosuccinate	$COOEt.CHAc.CHPh.CO OEt$	$C_{16}H_{20}O_6$	....	75-76	Weltner	B., 17, 71	46, 746
Diethylic diacetosuccininate (diacetoxydihydrophthalate)	$(COOEt)_2.(OAc)_2.H_2$ =1.2.3.6.1.2 or =1.2.3.6.4.5	$C_{16}H_{20}O_8$	....	168	Wedel	A., 219, 71	46, 834
Methylic santonite	$C_{15}H_{19}MeO_3$	$C_{16}H_{22}O_3$	....	81-84	Cannizzaro and Carnelutti	B., 16, 427; G. I., 12, 393	44, 77
" " ....	"	"	....	82	" "	B., 12, 1574	....
Dibutyllic terephthalate	$C_6H_4(COO.Bu^a)_2=1.4$	$C_{16}H_{22}O_4$	....	Liquid	Berger	B., 10, 1743	34, 152
Diisobutyllic terephthalate	$C_6H_4(COO.Bu^b)_2=1.4$	"	....	52.5	"	"	"
Methylic santonate ....	....	"	....	86-86.5	Cannizzaro	G. I., 6, 355; J. [1876], 618	31, 470
" " ....	....	"	....	86-86.5	Cannizzaro and Valente	G. I., 8, 309; J. [1878], 825	36, 331
" metasantonate ....	....	"	....	101.5-102.5	" "	" "	"
" parasantonate ....	....	"	....	183-184	" "	" "	36, 332
Bilic acid ....	....	$C_{16}H_{22}O_6$	....	190	Egger	B., 12, 1069	36, 811
Coniferin	cf. B., 16, 44	$C_{16}H_{22}O_8$	....	185 u. c.	Tiemann and Haarmann	B., 7, 610	....
Lactoglucose pentacetate	$C_6H_7(OAc)_5O$	$C_{16}H_{22}O_{11}$	....	47-51	Fudakowsky	B. S. [2], 30, 433	36, 137
" " ....	"	"	....	51; s. f. 47	"	B., 11, 1071	34, 777
Galactose pentacetate	$C_6H_7(OAc)_5O$	"	....	62-66	"	B. S. [2], 30, 433	36, 137
" " ....	"	"	....	66-67; sf. 62	"	B., 11, 1071	34, 777
Dulcitan pentacetate ....	"	"	....	163 c.	....	A. C. [4], 27, 156	....
Antiar resin ....	....	$C_{16}H_{24}O$	....	60	....	....	i., 310
Hexyleugenol....	$(CH_2.CH : CH_2).OMe.OcC_6H_{13}$ =1.3.4 or 1.4.3	$C_{16}H_{24}O_2$	296-300	....	Cahours	C. R., 84, 151; J. [1877], 581	31, 462
Tetraethylic propargylpentacarboxylate	$CH(COOEt)_2.C(COOEt)_2$ ($CH_2.COOH$)	$C_{16}H_{24}O_{10}$	275-280 (188)	....	Bischoff & Enmert	B., 15, 1109	42, 1191
Digitaliretin ....	....	$C_{16}H_{26}O_3$	....	60	Walz	J. [1858], 529	ii., 330
Diisobutyl diacetyl dextro-tartarate	$(CHOAc.CO O Bu^b)_2$	$C_{16}H_{26}O_5$	322-326	Liquid	Anschutz	B., 14, 2790	42, 831
" " "	"	"	322-324	....	Pictet	B., 15, 2243	....
Tetraethylic ethylidene dimalonate	$CHMe[CH(COOEt)]_2$	$C_{16}H_{26}O_{16}$	209 (20)	Liquid	Kommenos	A., 218, 145	46, 422

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Linoleic acid	$C_{15}H_{27}COOH$	$C_{16}H_{28}O_2$	b. 18	Schüler	A., 101, 252	iii., 700
Palmitic acid	"	42	Schröder	A., 143, 27	vi., 895
Palmitoxylic acid ....	....	$C_{16}H_{28}O_4$	....	64	"	A., 143, 35	vi., 896
Hexylpentylacrylic acetate	$Me(CH_2)_4C(CH_2)_5COOAc$	$C_{16}H_{30}O_2$	285-290 ; 280-290 ; 280-285	Liquid	Perkin	....	43, 54, 63, 68
?-acid ....	....	"	....	21	Marasse	B., 2, 361	
Hypogœic acid	$C_{16}H_{29}COOH$	"	....	28	"	"	
" " ....	"	"	....	33	Schröder	A., 143, 22	
" " ....	"	"	....	34-35	Gössmann & Scheven	A., 94, 230	iii., 238
Phytetic acid " ....	"	"	....	30	....	A., 91, 182	
Gaidic acid ....	"	"	....	38	Caldwell and Gössmann	A., 99, 307	"
" " ....	"	"	....	39	Schröder	A., 143, 38	vi., 727
Caprylic anhydride	$(C_8H_{15}O)_2O$	$C_{16}H_{30}O_3$	280-290	Liquid	Chiozza	A., 85, 229	i., 746
Oxyhypogœic acid ....	....	"	....	34	Schröder	A., 143, 36	vi., 727
Jalapinic acid ....	....	"	....	60-61	Keller	A., 104, 63 ; 109, 269	iii., 441
" " ....	....	"	....	64-64.5	Meyer	A., 95, 149	"
" " ....	....	"	....	s. 50	Spirgatis	A., 116, 289	
Condensation of isobutaldehyde	....	" (?)	190-200 (100)	....	Perkin	....	43, 101
Diacetate of glycol $C_{12}H_{26}O_2$	$C_{12}H_{24}(OAc)_2$	$C_{16}H_{30}O_4$	185-190	....	"	....	43, 95
Thapsic acid (dioctylic acid)	$(C_8H_{15}O_2)_2$	"	....	123-124	Canzoneri	G. I., 13, 514	46, 461
Agaricic acid ....	....	$C_{16}H_{30}O_5$	....	139	Jahns	A. P. [3], 21, 260	46, 354
Suberylglycollic acid	$(C_7H_{12}OH.COOH)_2 + H_2O$	$C_{16}H_{30}O_7$	see $C_8H_{14}O_3$	50	Dale and Schorlemmer	....	39, 541
Diglycerylsebate (Sebacin)	$(C_8H_6)_2(OH)_4(O_2 : C_{10}H_{16}O_2)$	$C_{16}H_{30}O_8$	....	— 40	Berthelot	A. C. [3], 41, 293	v., 214
Cetene oxide ....	....	$C_{16}H_{32}O$	b. 300	b. 30	Carius	A., 126, 203	vi., 421
Palmitic aldehyde	$C_{15}H_{31}CHO$	"	192-193 u.c. (22) ; 239-240 (100)	58.5	Krafft	B., 13, 1416	38, 867
" " ....	"	"	....	52	Dollfus	J., 17, 518	
Cetyl aldehyde ....	"	"	....	46-47	"	A., 131, 287	
Tetradecyl methylketone	$Me.CO(CH_2)_{13}.Me$	"	230-231 (100)	43-43.5	Krafft	B., 15, 1707	42, 1272
Heptylpentylethyl acetate	$Me(CH_2)_6CH(CH_2)_4COOAc$	$C_{16}H_{32}O_2$	275-280	l.—10	Perkin	B., 15, 2811 ; 16, 1032	43, 57, 77
Tetradecylic acetate	$CH_3(CH_2)_{12}CH_2COOAc$	"	175.5-176.5 (15)	12-13	Krafft	B., 16, 1720	44, 1076
Isoamylc umbellulate	$C_{10}H_{21}COO(CH_2)_2CHMe_2$	"	abt. 295	....	Stillmann & O'Neill	A. C. J., 4, 206	42, 1186
Diisobutylic isooctylate	$CHMe.C(CH_2)_2Pr^s$	"	278-281	....	Carleton-Williams	....	35, 129
Octylic caprylate	$COO.CH_2CHMe.C(CH_2)_2Pr^s$	"	297-299	....	Zincké	A., 152, 6	vi., 879
Diheptylacetic acid	$[Me.(CH_2)_6]_2 : CH.COCH_3$	"	240-250 (80-90)	26-27	Jourdan	A., 200, 116	38, 314
Palmitic acid	$C_{15}H_{31}COOH$	"	....	s. 55	Reichardt	A. P. [3], 10, 339	32, 518
" "	"	"	339-359 ; 348 c.	60.5	Carnelley and Williams	B., 12, 1360	35, 563
" " ....	"	"	....	60	Bernheimer	M. C., 1, 466	42, 232
" " ....	"	"	....	62	Heintz	J., 7, 461	iv., 332
" " ....	"	"	....	62	Schlippe	J., 11, 303	
" " ....	"	"	....	62	Fittig	....	35, 563
" " ....	"	"	....	61	Dnffy	J., 5, 511	
" "	"	"	62	Herrmann	N. R. P., 20, 283	24, 724 ; vii., 469
" "	"	"	62	Reichardt	A. P. [3], 10, 339	32, 518
" "	"	"	62	Kerr	P. M. [5], xiii., 165	

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Palmitic acid....	$C_{15}H_{31}COOH$	$C_{16}H_{32}O_2$	268.5 (100)	62	Krafft	B., 12, 1670	38, 34
" "	"	"	215 (15)	"	B., 16, 3018	46, 572
Hexadecylic acid (palmitic)	$CH_3(CH_2)_{14}COOH$	"	268.5 (100)	62	"	B., 15, 1687	42, 1272
(Isobutylal) ₄	"	$C_{16}H_{32}O_4$ (?)	134-136	Liquid	Economides	C. R., 92, 886	40, 711
Turpetholic acid ....	"	"	....	87	....	A., 139, 53	
" "	Monobasic	"	....	abt. 88	Spirgatis	J. p., 92, 97	v., 926
Dihydroxypalmitic acid ....	"	"	....	115	Schröder	A., 143, 37	vi., 727
Dioctyl oxide....	$Me.(CH_2)_7O.(CH_2)_7Me$	$C_{16}H_{34}O$	280-282	Liquid	Möslinger	A., 185, 56; B., 9, 998	30, 394
Cetyl alcohol	$C_{16}H_{33}OH$	"	....	a. 48	Chevreul	Recherches sur les Corps Gras, 171	i., 841
" " (ethal)....	"	"	....	s. 49-49.5	Heintz	P. A., 84, 232	i., 841; v., 430
" " ....	"	"	....	49	Schorlemmer	P. R. S., 19, 22; B., 3, 617	vi., 421; vii., 277
" "	"	"	344	50	....	A., 206, 352	
" " ....	"	"	....	50	Kerr	P. M. [5], 13, 160	
Triisoamylic orthoformate	$CH(O.CH_2.CH_2.CHMe_2)_3$	$C_{16}H_{34}O_3$	260-265	....	Pinner	B., 16, 1647	44, 1089
Triisoamyl "	"	"	265-267	....	Dentsch	B., 12, 118	36, 453
Pyrene carboxylic acid	$C_{16}H_9COOH$	$C_{17}H_{10}O_2$	....	267	Goldschmidt and Wegscheider	M. C., 4, 257	44, 1004
α -Naphthylphenyl ketone	$C_{10}H_7.CO.C_6H_5$	$C_{17}H_{12}O$	....	75	Grucarevic & Merz	B., 6, 60	26, 635
α- " " ....	"	"	....	75.5	" "	B., 6, 1239	
α- " " ....	"	"	....	75	Liebermann	A., 183, 225	31, 608; 32, 563
α- " " ....	"	"	....	75	Vincent and Roux	B. S. [2], 40, 163	46, 609
α- " " ....	"	"	....	77.5	Kollarits and Merz	B., 6, 541	vii., 940; 26, 1035
β- " " ....	"	"	....	81.5	Vincent and Roux	B. S. [2], 40, 163	46, 609
β- " " ....	"	"	....	82	Grucarevic & Merz	B., 6, 1239	
β- " " ....	"	"	....	82	Kollarits and Merz	B., 6, 541	vii., 940; 26, 1035
β- " " ....	"	"	....	82	Liebermann	A., 183, 225	31, 608; 32, 563
Lactone of cornicularic acid	$CH : CPh.CO.O.C : CHPh$	$C_{17}H_{12}O_2$	....	141	Spiegel	B., 15, 1547	42, 1077
α -Naphthyl benzoate	$C_{10}H_7.OBz$	"	....	56	Maikopar	Z. C. [2], 5, 216	vi., 859
β- " " ....	"	"	....	107	"	"	"
From hydroxynaphthobenzoic acid	"	"	....	114	Walder	B., 16, 306	44, 666
Benzoyl β -methylumbelliferone	$C_6H_5(OBz).CMe : CH.CO.O$	$C_{17}H_{12}O_4$	....	159-160	Pechmann and Duisberg	B., 16, 2124	46, 66
Acetoxymethylanthraquinone	$C_{14}H_6 : O_2.Me.OAc$	"	....	177	Roemer and Link	B., 16, 702	44, 1139
Acetylsantonin acid	$C_{15}H_9AcO_4$	$C_{17}H_{12}O_5$	....	139-140	Sestini	G. I. [1875], 121	28, 895
Alpinin	"	$C_{17}H_{12}O_6$	....	172-174	Jahns	B., 14, 2810	42, 866
Acetyl emodin	$C_{14}H_4.Me : O_2.(OH)_2.OAc$	"	....	179-180	Liebermann	A., 183, 162	31, 610
" " ....	"	"	....	180	"	B., 8, 971	29, 252
Diacetyl euxanthone	$O.C_6H_3(OAc).CO.C_6H_3(OAc)$	"	....	185	Salzmann and Wichelhaus	B., 10, 1402	34, 80
Dibenzylidene acetone	$CO.(CH : CHPh)_2$	$C_{17}H_{14}O$	....	112	Claisen & Claparede	B., 14, 350	40, 422
" " ....	"	"	....	112	Claisen	B., 14, 2470	
α -Naphthylphenylcarbinol	$C_{10}H_7.CH(OH).C_6H_5$	"	a. 360	86.5	Lehne	B., 13, 359	38, 478
α -Naphthyl benzyl oxide	$C_{10}H_7.O.CH_2Ph$	"	320 d.	Liquid (?)	Städel	A., 217, 48	44, 586
β- " " ....	"	"	....	99	Städel	A., 217, 47; B., 14, 899	44, 586; 40, 724
Hydrocornicularic anhydride	$CHPh : C.CH_2.CHPh.CO.O$	$C_{17}H_{14}O_2$	....	116-117	Spiegel	B., 14, 1691	40, 1036
Isodihydrocornicularic anhydride	$CH_2.CHPh.CO.O.C : CHPh$	"	....	102-105	"	B., 15, 1547	42, 1077
Ethyl anthracene carboxylate	$C_{14}H_9.COOEt$	"	....	134	Liebermann and Bischoff	B., 13, 49	38, 400
" " "	"	"	....	134-135	Börnstein	B., 16, 2609	46, 330

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isatronic acid....	$C_{16}H_{13}.COOH$	$C_{17}H_{14}O_2$	....	156-157	Fittig	A., 206, 57 ; B., 12, 1741	40, 427 ; 38, 120
Atronic acid ....	"	"	....	164	"	A., 206, 50	40, 426
" " ....	"	"	....	163	"	B., 12, 1742	38, 121
From bromcinnamic acid ....	....	"	....	127	Leuckart	B., 15, 20	42, 615
Cornicularic acid	$CPh(COOH):CH.CO.CH_2Ph$	$C_{17}H_{14}O_3$	....	115	Spiegel	B., 15, 1547	42, 1077
Phenanthrene quinacetone ....	....	"	....	89.5-90 ; 88-89.5	Japp & Streatfield	B., 16, 283	41, 273, 275
Acetoxyphenylcinnamic acid	$(OAc).(CH:CPh.COOH)=1.2$	$C_{17}H_{14}O_4$	d. 170	180	Oglialoro	G. I., 9, 428	38, 164
" " " "	" " " " =1.4	"	....	170	"	G. I., 13, 173	46, 176
Ethylc benzhydrolisophthalate anhydride	$COO.CHPh.C_6H_5.COEt$	"	....	114-115	Blatzbecker	B., 9, 1764	31, 469
Ethylchrysin ....	....	"	....	146	Piccard	B., 10, 177	32, 342
Diacetoxybenzophenone	$CO(C_6H_4.OAc)_2=1.2 ; 1.4$	$C_{17}H_{14}O_5$	....	84-85	Michael	A. C. J., 5, 81	46, 311
" " " "	" " =1.2 ; 1. ?	"	....	87-88	"	B., 14, 657	40, 592
" " " "	" " =1. ? ; 1.4	"	....	89-90	Städel	A., 218, 339	44, 992
" " " "	" " "	"	....	89-90	Städel and Sauer	B., 13, 836	38, 646
" " " "	" " =(1.4) ₂	"	....	148	Bayer and Burkhardt	B., 11, 1300	34, 886
" " " "	" " "	"	....	152	Gail	A., 194, 336	36, 326
Dimethylic benzoylisophthalate	$C_6H_5Bz.(COOMe)_2=?1.3$	"	....	117-118	Blatzbecker	B., 9, 1763	31, 469
" benzoylterephthalate	" " =?1.4	"	....	100-101	....	J. [1878], 403	
Benzyleumidic acid....	$Me_2.Bz.(COOH)_2=1.2.3.4.5$	"	....	85	....	J. [1879], 562	
Diphenylethananetricarboxylic acid	....	$C_{17}H_{14}O_6$	....	253-255	Haiss	B., 15, 1480	42, 1071
Ethylic phenylcinnamate	$Ph.CH:CPh.COEt$	$C_{17}H_{16}O_2$	....	Liquid	Oglialoro	G. I., 8, 429 ; J. [1878], 821	36, 640
Tetrahydrocornicularic anhydride	$O.CO.CHPh.CH_2.CH.CH_2Ph$	"	....	69-71	Spiegel	B., 14, 1692	40, 1037
Distyrenic acid ....	....	"	....	abt. 50	Erdmann	A., 216, 182	44, 475
Hydrocornicularic acid	$CH_2Ph.CH(OH).CH_2.CHPh.COOH$ minus 2H	$C_{17}H_{16}O_3$	....	134	Spiegel	B., 14, 1690 ; 15, 1548	40, 1036
Ethyltoluylbenzoate	$Me.C_6H_4.CO.C_6H_4.COEt$	"	....	68-69	Friedel and Crafts	C. R., 92, 833 ; B. S., 35, 505	40, 732
Benzyleugenol	$(CH_2.CH:CH_2).OMe.OBz$	"	a. 360	50-55	Cahours	A. C. [3], 52, 201	ii., 605
" " " "	" " " " =1.3.4	"	....	69-70	Tiemann & Kraaz	B., 15, 2067	
Benzoylisoegenol	$(CH:CHMe).OMe.OBz$	"	....	159-160	" "	B., 15, 2068	
Pseudocumene phthalic acid	$C_6H_2.Me_3.CO.C_6H_4.COOH$	"	....	146.5	Meyer	B., 15, 638	42, 848
Mesitylene phthalic acid	" " =1.3.4 ; 1.2	"	....	212-212.5	Grisley and Meyer	B., 15, 639	42, 848
Propylene dibenzoate	$CH_3.CHOBz.CH_2OBz$	$C_{17}H_{16}O_4$	240 (12-14)	....	Friedel and Silva	C. R., 73, 1379 ; Z. C. [2], 7, 490	vii., 1021 ; 25, 135, 296
" " " "	$CH_2.(OBz).CH_2.CH_2.OBz$	"	....	53	Reboul	C. R., 79, 169 ; A. C. [5], 14, 500	27, 1153 ; 36, 133
" " " "	$C_3H_6(OBz)_2$	"	vol. a. 300	72	Mayer	B. S. [2], 2, 451	vi., 309
Monethylic diphenylsuccinate	$COOEt.CHPh.CHPh.COEt$	"	....	140	Franchimont	B., 5, 1050	26, 391
Diacetoxydiphenylmethane....	$CH_2(C_6H_4.OAc)_2=1.4 ; 1. ?$	"	....	69-70	Beck	A., 194, 324	36, 325
Benzoic acetone ether ....	....	"	230-240 (10)	69-71	....	A., 145, 195 ; As., 6, 361	
Acetyl-lapachic acid....	$C_{10}H_4(C_5H_9)(OAc):O_2$	"	....	82-83	Paternò	B., 16, 801 ; G. I., 12, 337	44, 211
Diethyleuxanthone	$C_{13}H_6Et_2O_4$	"	....	126	Gräbe and Ebrard	B., 15, 1678	42, 1301
Acetyl hydrocotoïn	$C_{15}H_{13}AcO_4$	$C_{17}H_{16}O_5$	....	83	Jobst and Hesse	A., 199, 60	38, 328
Cubebin ....	....	" (?)	....	120	Schuck	N. R. P., 1, 213	ii., 171
From orcinol	$C_{31}H_{30}O_9 ?$	"	....	245	Wittenberg	J. p. [2], 26, 70	42, 1290
β -Acetoxynaphthoic aldehyde diacetate	$C_{10}H_6(OAc).CH(OAc)_2$	$C_{17}H_{16}O_6$	....	124	Kauffmann	B., 16, 684	44, 1136

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Santalin	See C ₁₅ H ₁₄ O ₅	C ₁₇ H ₁₆ O ₆	....	104-105	Franchimont and Sicherer	B., 12, 14	36, 470
Evernic acid ....	....	C ₁₇ H ₁₆ O ₇	....	164	Stenhouse	A., 68, 84 ; P. R. S., 18, 222	ii., 611 ; vii., 496
Cymylphenyl ketone	C ₆ H ₅ .CO.C ₆ H ₃ MePr	C ₁₇ H ₁₈ O	abt. 340	<i>l. f. m.</i>	Kollarits and Merz	B., 6, 546	26, 1036
" "	"	"	abt. 340	....	Grucarevic & Merz	B., 6, 1244	vii., 940
Dixyl ketone	CO(C ₆ H ₃ Me ₂) ₂	"	340	1. -60	Ador and Rilliet	B., 11, 399	34, 498
Durylphenyl ketone	C ₆ H ₅ .CO.C ₆ HMe ₄	"	343-343.5	119	....	J. [1879], 372, 562	
Benzylmethylbenzylacetate	C ₆ H ₅ .CH ₂ .CHMe.COO. CH ₂ Ph	C ₁₇ H ₁₆ O ₂	53 (<i>sic</i>)	Liquid	Conrad	B., 11, 1057	34, 732
" "	"	"	320-325	....	"	A., 193, 313	
Ethylc tolylphenylacetate	CH ₃ .C ₆ H ₄ .CHPh.COOEt = 1.4	"	....	34	Tanisch	B., 10, 997	32, 618
Benzoxisobutylbenzene	C ₆ H ₄ .C ₄ H ₉ .OBz	"	335 u.c.	83	Studer	B., 14, 2187 ; A., 211, 246	41, 176
<i>α</i> -ditolylpropionic acid	(C ₆ H ₄ Me) ₂ .CMe.COOH = (1.4) ₂	"	....	151-152	Bötttinger	B., 14, 1596	40, 1035
" " ....	"	"	....	151-152	Haiss	B., 15, 1474	42, 1071
Benzoxisocymene	C ₆ H ₃ .Me.Pr _β .OBz = 1.3.?	"	....	73	Kelbe	A., 210, 42	42, 301
Methylic dibenzylglycollate	(C ₆ H ₅ .CH ₂) ₂ .C(OH).COOMe	C ₁₇ H ₁₈ O ₃	....	71	Spiegel	B., 14, 1687	
Diethoxybenzophenone	(EtO.C ₆ H ₄) ₂ .CO = (1.4) ₂	"	....	131	Beck	B., 10, 1840	34, 421
" " ....	"	"	....	131	Gail	A., 194, 334	36, 326
Benzylmethyl phenoxy <i>α</i> -propionic acid	Ph.CH ₂ .C ₆ H ₃ Me.O.CHMe. COOH = ? 1.4	"	....	115	Mazzara	B., 15, 1758 ; G. I. [1882], 261	42, 1072
Ethylc ethylenephenol <i>p</i> -oxybenzoate	PhO.C ₂ H ₄ .O.C ₆ H ₄ .COOEt	C ₁₇ H ₁₈ O ₄	....	81	Wagner	J. p. [2], 28, 199	46, 437
Decarbusnëin ....	....	C ₁₇ H ₁₈ O ₆	....	175	....	J. [1875], 613	
Acetyl decarbusnic acid	C ₁₅ H ₁₅ AcO ₆	"	....	147-148	Paternò	G. I. [1882], 231	42, 1080
Resin from dragon's blood ....	....	C ₁₇ H ₁₉ O ₅ (<i>sic</i>)	....	abt. 100	Dobbie & Hender- son	P. J. T. [3], 14, 361	46, 462
Benzylthymol	C ₆ H ₅ .OH.Me.Pr ^α .CH ₂ Ph = 1.3.6.?	C ₁₇ H ₂₀ O	255 (8)	<i>l. f. m.</i>	Mazzara	G. I. [1881], 346	42, 172
Diethoxydiphenylmethane	CH ₂ (C ₆ H ₄ .OEt) ₂ = (1.4) ₂	C ₁₇ H ₂₀ O ₂	....	38-39	Beck	A., 194, 323	36, 325
Ethylc <i>α</i> -triethoxycinna- mate	C ₆ H ₅ (OEt) ₃ .(CH:CH.COOEt)	C ₁₇ H ₂₀ O ₄	230	51	Will	B., 16, 2110	46, 68
" <i>β</i> - "	"	"	360	75	"	B., 16, 2109	"
Diacetyl fraxitannic acid	C ₁₃ H ₁₂ (OH) ₂ (OAc) ₂ O ₃	C ₁₇ H ₂₀ O ₉	....	100 +	Gintl and Reinitzer	M. C., 3, 753	44, 217
Patellaric acid ....	....	C ₁₇ H ₂₀ O ₁₀	....	a. 100 d.	....	J. [1869], 768	
Ethylc cinnamyl diethylace- tate	Ph.CH:CH:CO.CEt ₂ .COOEt	C ₁₇ H ₂₂ O ₃	....	101	Claisen & Matthews	A., 218, 170	46, 444
" " "	"	"	200-205 (3)	101-102	Matthews	....	43, 205
Podocarpic acid	C ₆ H ₅ .(C ₉ H ₁₅).Me.OH.COOH	"	d. 330	187-188	Oudemans	A., 170, 213 ; B., 6, 1123	27, 72
Acetylhydrosantonide ....	....	C ₁₇ H ₂₂ O ₄	....	204-204.5	Cannizzaro	G. I., 6, 341	31, 471
Diethylc benzylacetosucci- nate	COOEt.CH ₂ .CAc(CH ₂ Ph). COOEt	C ₁₇ H ₂₂ O ₅	310	....	Conrad	B., 11, 1058	34, 733
Acetylsantonic acid	C ₁₅ H ₁₉ AcO ₄	"	....	139-140	....	J. [1875], 608	
Ilixanthin ....	....	C ₁₇ H ₂₂ O ₁₁	215 d.	198	Moldenhauer	A., 102, 346	iii., 244
Ethylc santonite	C ₁₅ H ₁₉ O ₃ .Et	C ₁₇ H ₂₄ O ₃	....	117	Cannizzaro and Carnelutti	B., 12, 1574	
" " ....	"	"	....	116-117	"	G. I., 12, 393 ; B., 16, 427	44, 77
" isosantonite ....	"	"	....	125	"	"	"
" " ....	"	"	....	117 ?	"	J. [1880], 895	
Ethylsantonous acid ....	"	"	....	118	"	B., 12, 1574	
" " ....	"	"	....	115.5-116	"	G. I., 12, 393 ; B., 16, 427	44, 77
Ethylisosantonous acid ....	"	"	....	143	"	"	"
Dimethylc photosantonate ....	....	C ₁₇ H ₂₄ O ₄	....	51-52	Sestini	G. I., 6, 357	31, 472
" " ....	....	"	....	56.5	"	"	"
Ethylc santonate ....	....	"	....	88-89	"	G. I., 6, 148	31, 90
" " ....	....	"	....	94-95	Cannizzaro & Valente	G. I., 8, 309	36, 331

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diacetoxanthraquinone	$C_6H_4:(CO)_2:C_6H_2(OAc)_2$ =2.1; 1.2.3.4	$C_{18}H_{12}O_6$	....	160	Perkin	....	26, 22
" .....	" " " " " "	"	....	179-183	Baeyer	B., 9, 1232	
" .....	" " " " " "	"	....	183-184	Liebermann	A., 183, 215	31, 613
" .....	" " " " " "	"	....	183-184	Liebermann and O. Fischer	B., 8, 974	29, 248
" .....	" " " " " "	"	....	200	Liebermann & Giesel	B., 8, 1648	
"	$C_{14}H_6(OAc)_2:O_2$	"	....	184	Faust	A., 165, 235	vii., 534; 26, 504
"	$AcO.C_6H_3:(CO)_2:C_6H_3.OAc$ =?	"	....	175; 180	Perkin	....	29, 854
" .....	" " " " " "	"	....	abt. 195	Schunck & Römer	B., 9, 382	30, 89
" .....	" " " " " "	"	....	199	" "	B., 11, 972	36, 68
" .....	" " " " " "	"	....	227	" "	B., 9, 382	30, 89
" .....	" " " " " "	"	....	abt. 228	Liebermann and O. Fischer	B., 8, 974	29, 248
" .....	" " " " " "	"	....	228-229	Perkin	26, 21	vii., 87
" .....	" " " " " "	"	....	226-230	Liebermann	A., 183, 145	31, 612
" .....	" " " " " "	"	....	226-230	Liebermann & Giesel	B., 8, 1643	29, 712
" .....	" " " " " "	"	....	227-232	Liebermann	B., 12, 186	36, 538
" .....	" " " " " "	"	....	244-245	Liebermann & Boeck	B., 11, 1616	36, 258
" .....	" " " " " "	"	....	245 d.	Schunck & Römer	B., 11, 1178	34, 985
Dibenzoxysuccinic anhydride	$CO.(CHOBA)_2.CO.O$	$C_{18}H_{12}O_7$	....	174	Anschütz & Pictet	B., 13, 1178	38, 876
Diacetylflavopurpurin ....	....	"	....	238	Schunck & Römer	B., 10, 1822	34, 322
Benzyl naphthylketone	$C_6H_5.CH_2.CO.C_{10}H_7$	$C_{18}H_{14}O$	....	57	Græbe & Bungener	B., 12, 1078	36, 807
From dehydrobenzoyl- acetic acid	Acid?	"	....	145-150 d.	Baeyer and Perkin	B., 17, 65	46, 839
Cinnamic anhydride	$(Ph.CH:CH.CO)_2O$	$C_{18}H_{14}O_3$	....	127	Gerhardt	A. C. [3], 37, 285	i., 989
Acid from dehydrobenzoyl- acetic acid	....	"	....	112	Baeyer and Perkin	B., 17, 59	46, 839
Hydroxynaphthyltoluic acid	$COOH.C_6H_4.CH_2.C_{10}H_6.OH$ =1.2; 1.3	"	....	261	Walder	B., 16, 304	44, 666
Phenoquinone (cf. B., 12, 1981)	$C_6H_4(O.OPh)_2=1.4 (?)$	$C_{18}H_{14}O_4$	....	71	Wichelhaus	B., 5, 249, 846	25, 482; vii., 1037
Phenanthranol diacetate	$C_6H_4.C_6H_4.C(OAc).C(OAc)$	$C_{18}H_{18}O_4$	....	202	Græbe	A., 167, 149	26, 895; vii., 94
Diacetoxanthracene(diacetyl chrysazol)	$AcO.C_6H_3:C_2H_2:C_6H_3.OAc$ =3.2.1; 1.2.3 or 4.2.1; 1.2.3	$C_{18}H_{14}O_4$	....	184	Liebermann	B., 12, 186	36, 537
" (diacetyl rufol)	" " " " " "	"	....	196-198	Liebermann & Boeck	B., 11, 1616	36, 258
" (diacetyl flavol)	" " " " " "	"	....	254-255	Schüler	B., 15, 1809	44, 74
Acetoxanthranol acetate	$C_6H_4:C_2H(OAc):C_6H_3.OAc$	"	....	155	Liebermann & Simon	B., 14, 1264	40, 823
Pyrenequinol diacetate	$C_{14}H_8(OAc)_2$	"	....	166-167	Goldschmidt	M. C., 4, 309	44, 870
Ethylene benzhydryl car- bonic anhydride	$(CH_2.CH.C_6H_4.COO)_2=(1.2)_2$	"	....	208-210	Gabriel & Michael	B., 10, 2209	34, 428
Hydrocoumarin ....	....	"	....	222	Zwenger	As., 8, 32	vii., 657
Polyporic acid ....	....	"	....	a. 300	....	A., 187, 177; 195, 365	
Na on phenylic acetate ....	....	"	....	138	Perkin and Hodg- kinson	....	37, 489
Acid	$CH_2:CH.C(COOH):CH.$ $C_6H_4.C_6H_4.COOH$	"	....	295	Japp & Streatfield	B., 16, 279	43, 31
Diacetoxidesoxyanthraqui- none	$AcO.C_6H_3:C_2H_2O:C_6H_3.OAc$	$C_{18}H_{14}O_5$	....	173	Roemer and Sch- warzer	B., 15, 1044	42, 975
Ethylene diphthaloic acid	$(CH_2.CO.C_6H_4.COOH)_2$ =(1.2) ₂	$C_{18}H_{14}O_6$	....	165.5-166.5	Gabriel & Michael	B., 10, 1561	34, 230
Diacetyl gentisin	$C_{14}H_8O_6Ac_2$	$C_{18}H_{14}O_7$	....	196-196.5	Hlasiwetz & Haber- mann	A., 175, 74	26, 572
Acetylhaematein	$C_{16}H_{11}(OAc)O_5 (?)$	" (?)	....	216-219 pd.	Erdmann & Schulz	A., 216, 232	44, 350 20

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dibenzoxysuccinic acid	$\text{COOH} \cdot (\text{CHOBz})_2 \cdot \text{COOH}$	$\text{C}_{18}\text{H}_{14}\text{O}_8$	....	132	Pictet	B., 15, 2242	
" " + H_2O}	"	"	....	90	"	"	
Pyrogalloquinone	$\text{C}_6\text{H}_4 \cdot [\text{O} \cdot \text{O} \cdot \text{C}_6\text{H}_3(\text{OH})_2]_2$	"	....	a. 200	Wichelhaus	B., 5, 848; A., 163, 162	26, 172; vii., 1030
" " " " " " " "	"	"	....	a. 200	Loew	J.p. [2], 15, 324	32, 477
Diacetylcardenic acid	$\text{C}_{14}\text{H}_8\text{Ac}_2\text{O}_6$	"	....	abt. 244 d.	Stenhouse & Groves	200, 320	35, 694
? phenol ....	....	$\text{C}_{18}\text{H}_{16}\text{O}$	270-300 (60)	....	Hodgkinson	....	37, 483
? " " " " " " " "	....	$\text{C}_{18}\text{H}_{16}\text{O}_2$	250 (60)	Liquid	"	....	37, 482
Cinnilyc cinnamate (styracin)	$\text{C}_6\text{H}_5\text{CH} : \text{CH} \cdot \text{COO} \cdot \text{C}_3\text{H}_5$	"	....	38	Kopp	Co. C. [1850], 140	i., 986
" " " " " " " "	"	"	....	40-41	Schröder	B., 13, 1072	
" " " " " " " "	"	"	....	44	Miller	R. P., 24, 1	
" " " " " " " "	"	"	....	44	Toel	A., 70, 1	i., 986
" " " " " " " "	"	"	....	44	Scharling	A., 97, 91, 188	"
From oxidation of retene ....	....	"	....	222	Ekstrand	A., 185, 75	32, 499
? " " " " " " " "	$\text{C}_{16}\text{H}_{13}\text{AcO}_2$	$\text{C}_{18}\text{H}_{16}\text{O}_3$	....	103	Japp	B., 12, 1307	35, 527
Diacetoxy phenylethylene	$\text{CH}_2 : \text{C}(\text{C}_6\text{H}_4\text{OAc})_2$	$\text{C}_{18}\text{H}_{16}\text{O}_4$	....	213	ter Meer	B., 7, 1203	28, 158
β -Isatropic acid	$\text{C}_{16}\text{H}_{14}(\text{COOH})_2$	"	....	206	Fittig	A., 206, 38	40, 426
β- " " " " " " " "	....	"	....	205-206	"	B., 12, 1743	38, 121
α- " " " " " " " "	....	"	....	196-198	Pesci	G. I. [1881], 538	
α- " " " " " " " "	....	"	....	200	Kraut	A., 148, 246	vi., 250
α - " " " " " " " "	$\text{COOH} \cdot \begin{array}{c} (\text{CH}_2)_2 \\ \text{CPh} \end{array} \cdot \text{CH} \cdot \text{COOH}$	"	....	237	Fittig	B., 12, 1743	38, 121
α - " " " " " " " "	$\text{C}_{16}\text{H}_{14}(\text{COOH})_2$	"	....	237-237.5	"	A., 206, 36	40, 425
α - " " " " " " " "	$\text{COOH} \cdot \begin{array}{c} (\text{CH}_2)_2 \\ \text{CPh} \end{array} \cdot \text{CH} \cdot \text{COOH}$	"	....	240	Fittig and Würster	A., 195, 167	36, 371
Diethoxyanthraquinone (from alizarin)	$\text{C}_6\text{H}_4 : (\text{CO})_2 : \text{C}_6\text{H}_2(\text{OEt})_2$ =2.1; 1.2.3.4	"	....	Liquid	Schützenberger	B., 15, 1798	
" " (from xanthopurpurin)	" =2.1; 1.2.3.5	"	....	170	Plath	B., 9, 1204	31, 87
" " (from isoanthraflavic acid)	$\text{EtO} \cdot \text{C}_6\text{H}_3 : (\text{CO})_2 : \text{C}_6\text{H}_2 \cdot \text{OEt} = ?$	"	....	193-194	Schunck and Roemer	B., 9, 333	30, 89
" " (from anthraflavic acid)	" =4.2.1; 1.2.5	"	....	232	" "	"	"
Action of $\text{Ca}(\text{HO})_2$ on phenol	....	$\text{C}_{18}\text{H}_{16}\text{O}_5$	....	159 d.	Erhart	A. P. [3], 8, 481	34, 316
Diacetoxy-o-tolylphenyl ketone	....	"	....	148-150	....	A., 179, 197	
Hydrocoumaric anhydride	$[\text{HO} \cdot \text{C}_6\text{H}_4 \cdot (\text{CH}_2)_2 \cdot \text{CO}]_2\text{O}$ =(1.2) ₂	"	....	222	....	As., 8, 36	
Mellilotic coumarin ....	....	"	....	128	....	A., 126, 257	
Triacetoxydiphenyl	$\text{C}_6\text{H}_4(\text{OAc}) \cdot \text{C}_6\text{H}_3(\text{OAc})_2$ =1.2; 1.2. (4?)	$\text{C}_{18}\text{H}_{16}\text{O}_6$	....	100	Hodgkinson and Matthews	....	43, 170
Carbusnetic acid	$\text{C}_{19}\text{H}_{16}\text{O}_8$?	$\text{C}_{18}\text{H}_{16}\text{O}_7$	....	193-195	Salkowski	B., 8, 1460	
" " " " " " " "	....	"	....	195.4 c.	Richter	R. K. T.	
" " " " " " " "	....	"	....	195-197	Spica	B., 16, 427	
Tetramethyl rufigallic acid	$\text{C}_{14}\text{H}_2(\text{OMe})_4(\text{OH})_2 : (\text{CO})_2$	$\text{C}_{18}\text{H}_{16}\text{O}_8$	....	abt. 220	Klobukowsky	B., 10, 885	32, 619
Iso-butyl oxanthrol	$\text{C}_6\text{H}_4 \cdot \text{CO} \cdot \text{C}_6\text{H}_4 \cdot \text{C}(\text{OH})(\text{C}_4\text{H}_9)$	$\text{C}_{18}\text{H}_{18}\text{O}_2$	....	130	Liebermann and Walder	B., 14, 462	40, 609
Diethoxyanthracene (diethyl-flavol)	$\text{EtO} \cdot \text{C}_6\text{H}_3 : \text{C}_2\text{H}_2 : \text{C}_6\text{H}_3 \cdot \text{OEt}$ =4.2.1; 1.2.5	"	....	229	Schuler	B., 15, 1809	44, 74
Diethylcarbobenzoic acid ....	....	"	....	100	Limpricht and Schwanert	A., 155, 67	
" " " " " " " "	....	"	....	102	....	A., 184, 164	
" " " " " " " "	....	"	....	132	Limpricht and Schwanert	A., 155, 67	
Retenic acid ....	....	"	....	222	Ekstrand	A., 185, 111; B., 9, 855	30, 514
Methylic hydrocornicularate	....	$\text{C}_{18}\text{H}_{18}\text{O}_3$	....	67-68	Spiegel	B., 14, 1691	40, 1036
Pyrogauajacol	$\text{HO} \cdot \text{C}_{12}\text{H}_{10} \cdot \text{O} \cdot \text{C}_6\text{H}_6 \cdot \text{OH}$	"	258(80-90)	180.5 u.c.	Wieser	W. A. [1881], 464	40, 812
Duroyl benzoic acid	$\text{C}_6\text{HMe}_4 \cdot \text{CO} \cdot \text{C}_6\text{H}_4 \cdot \text{COOH}$	"	....	a. 260	Friedel and Crafts	C. R., 92, 833	40, 732

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isohydrobenzoin diacetate	$C_{14}H_{12}(OAc)_2$	$C_{18}H_{18}O_4$	....	113	Limpricht and Schwanert	A. 160, 177	25, 137
" " ....	"	"	....	116	"	"	"
" " ....	"	"	....	116	Ammann	A., 168, 77	26, 1140
" " ....	"	"	....	117-118; a.f. 105-106	"	Z. C. [2], 7, 83; A., 168, 77	24, 385; vii., 171
" " ....	"	"	....	117-118	Forst and Zincké	B., 7, 1708	26, 454
" " ....	"	"	....	120	Limpricht and Schwanert	A., 145, 330	vi., 1108
Hydrobenzoin diacetate ....	"	"	....	133-134	Ammann	A., 168, 73	26, 1140
" " ....	"	"	....	134	Forst and Zincké	B., 7, 1708; A., 182, 275	26, 454; 30, 635
" " ....	"	"	....	135	Limpricht and Schwanert	A., 160, 275	25, 138; vii., 172
" "	CHPh(OAc).CHPh(OAc)	"	....	134-135	Paal	B., 16, 637	44, 806
Dibenzyl succinate	$COOCH_2Ph.(CH_2)_2.COO$ CH_2Ph	"	....	41.5-42.5	Zanna & Guareschi	B., 14, 2242; G. I. [1881], 255	
Ethyl diphenylsuccinate	$COOEt.CHPh.CHPh.COOH$	"	....	140	Franchimont	B., 5, 1050	
Dibenzylacetoxyacetic acid	$(C_6H_5.CH_2)_2.C(OAc).COOH$	"	....	106	Spiegel	B., 14, 1688	40, 1036
Diethyl diphenate	$(C_6H_5.COOEt)_2=(1.2)_2$	"	....	42	Hummel	A., 193, 128	36, 165
" "	" $= (1.4)_2$	"	....	112	Döbner	A., 172, 121	27, 893
Dibenzylethylene dicarboxylic acid	$(CH_2.CH_2.C_6H_4.COOH)_2$ $= (1.2)_2$	"	....	196-198	Gabriel & Michael	B., 10, 2208	34, 428
Hydropolyporic acid	....	"	....	162-163	....	A., 195, 366	
Resin from Dracæna	....	"	....	abt. 80	Dobbie and Henderson	P. J. T. [3], 14, 361	46, 463
Alorcinic anhydride	$[C_6H_2(OH)Me_2.CO]_2O$	$C_{18}H_{18}O_5$	....	138	Weselsky	B., 5, 168; A., 167, 65	vii., 53; 26, 1039
Dipropionyl rhamnetin	$C_{12}H_8O_3(O.CO.CH_2.CH_3)_2$	$C_{18}H_{18}O_7$	....	158-162	Liebermann and Hörmann	A., 196, 320; B., 11, 1618	36, 272
β -Usnic acid (cladonic acid)....	....	"	....	175	Hesse	A., 117, 346	34, 882; v., 970; vii., 353
β- " " ....	....	"	....	175	Stenhouse	P. R. S., 18, 222	vii., 1194
α- " " ....	....	"	....	195-197	Spica	G. I., 12, 431	44, 80
α- " " ....	....	"	....	195-197	Paternò	B., 9, 345	30, 202
α- " " ....	....	"	....	195-197	Paternò & Ogliarolo	G. I., 7, 189	32, 786
α- " " ....	....	"	....	200	Knop	A., 49, 104	v., 970
α- " " ....	....	"	....	abt. 200	Hesse	....	34, 882
α- " " ....	....	"	....	201.8	"	A., 137, 241	vi., 413
α- " " ....	....	"	....	203	"	A., 117, 344	v., 970
α- " " ....	....	"	....	203	Stenhouse	P. R. S., 18, 222	vii., 1194
Catechin ....	....	$C_{18}H_{18}O_8$	....	140	Etti	M. C., 2, 547	42, 67
Querciglucon ....	....	$C_{18}H_{18}O_9$	....	174	....	B. S., 33, 585	
Hexamethyl mellitate	$C_6(COOMe)_6$	$C_{18}H_{18}O_{12}$	....	139-140	....	A., 177, 273	
" " ....	"	"	....	187	....	J. [1862], 281	
Isobutylhydranthranol	$C_6H_4.CH_2.C_6H_4.C(OH).C_4H_9$	$C_{18}H_{20}O$	....	71-72	Liebermann	A., 212, 103	42, 862
Ethyl dibenzylacetate	$(C_6H_5.CH_2)_2.CH.COEt$	$C_{18}H_{20}O_2$	a. 300	Liquid	Sesemann	I. D., Zurich	28, 74
" "	"	"	a. 300	Liquid	Merz and Weith	B., 10, 759	32, 617
Benzyl dimethylbenzylacetate	$C_6H_5.CH_2.CMe_2.COOCH_2Ph$	"	200-210(40); 280-285 p. d. (760)	....	Hodgkinson	A., 201, 171	33, 498
" phenylvalerate	$C_4H_8Ph.COOCH_2Ph$	"	330-340	....	....	A., 193, 318	
" "	"	"	240-250(120)	....	Conrad and Hodgkinson	B., 10, 254	31, 590
(?)	....	"	250 (60)	Liquid	Hodgkinson	....	37, 482
Benzylisobutylbenzoic acid ....	....	"	....	172	Zinin	B., 10, 1737	34, 153
Ethyl dibenzylhydroxyacetate	$(C_6H_5.CH_2)_2.C(OH).COEt$	$C_{18}H_{20}O_3$	....	45.5	....	A., 113, 73	
From Sequoia gigantea	....	"	227-230	Liquid	Lunge and Steinkauler	B., 14, 2205	42, 208
Alcoholate of $C_{16}H_{14}O_2$	$C_{16}H_{14}O_2.C_2H_5O$	"	....	77	Japp	B., 12, 1307	35, 527 2 o 2

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Benzoydimethoxypropylbenzene	$C_6H_2.C_3H_7.(OMe)_2.OBz$	$C_{18}H_{20}O_4$	....	91	Hofmann	B., 11, 331	34, 417
Diphenylcarbinol amyl oxide	$Ph_2.CH.O.C_5H_{11}$	$C_{18}H_{22}O$	310	Liquid	Friedel & Balsohn	B. S. [2], 33, 340	38, 559
Benzylmethoxycymene	$C_6H_2.CH_2.Ph.Pr^a.Me.OMe$	"	....	89-90	....	G. I., 11, 433	
Diethoxyditolyl	$(C_6H_3.Me.OEt)_2$	$C_{18}H_{22}O_2$	....	156	Schultz	B., 17, 468	46, 903
Hexmethoxydiphenyl	$C_{12}H_4(OMe)_6$	$C_{18}H_{22}O_6$	....	126	Ewald	B., 11, 1623	36, 253
Tetraethylic pyromellitate	$C_6H_2(COOEt)_4=1.2.4.5$	$C_{18}H_{22}O_8$	....	53	Baeyer	As., 7, 36	vi., 812
Murrayin	....	$C_{18}H_{22}O_{10}$	....	170	Blas	B., 9, 693	30, 421
"	....	"	....	170	Hoffmann	A. P. [3], 14, 139	36, 468
Carotin	....	$C_{18}H_{24}O$	....	167.8	Husemann	A., 62, 380; 117, 200	i., 806
Methylic podocarpate	....	$C_{18}H_{24}O_3$	....	174	....	A., 170, 223	
Allylic santonate	....	$C_{18}H_{24}O_4$	....	54-55	Carnelutti & Nasini	B., 13, 2209	40, 181
Hydrocotone	....	$C_{18}H_{24}O_6$	243	48-49	Jobst and Hesse	A., 199, 47	38, 327
Waldivin	....	$C_{18}H_{24}O_{10}$	....	230 d.	Tanret	B. S. [2], 35, 104	40, 441
Hexmethylic isohydromellitate	$C_6H_6(COOMe)_6$	$C_{18}H_{24}O_{12}$	....	125	Baeyer	As., 7, 47	vi., 810
Propylic santonate	$C_{14}H_{16}O_2.COOPr^a$	$C_{18}H_{26}O_4$	220 (d. p.)	Liquid	Carnelutti & Nasini	B., 13, 2209	40, 181
" parasantonate	"	"	....	113	" "	"	"
Diethylic hydroxydibenzoate	$C_{14}H_{16}Et_2O_5$	$C_{18}H_{26}O_6$	205-207	Liquid	Otto	A., 134, 331	vi., 722
Hexic acid	$3C_6H_5O_2+H_2O$	$C_{18}H_{26}O_7$	....	126	Demarçay	C. R., 88, 126; A. C. [5], 20, 468; B. S. [2], 33, 575	36, 457; 40, 255
Isohexic acid	"	"	....	124	"	"	"
Oxyhexic acid	$3C_6H_5O_3+H_2O$	$C_{18}H_{26}O_{10}$	....	173-174	"	C. R., 88, 289; A. C. [5], 20, 489	36, 459
Isoxyhexic acid	"	"	....	186-187	"	"	"
Diethylic tetracetsaccharate	$C_4H_4(OAc)_4(COOEt)_2$	$C_{18}H_{26}O_{12}$	....	61	Baltzer	A., 149, 242; B. S. [2], 10, 263	vi., 1000
" tetracetmucate	"	"	....	177	....	A., 129, 195	
Hexacetmannite	$C_6H_8(OAc)_6$	"	....	abt. 100	Grange	C. R., 68, 1326	vi., 806
"	"	"	....	100	Schützenberger	A., 160, 94; A. C. [4], 21, 235	vii., 774; 25, 70
"	"	"	....	119	Bouchardat	A. C. [5], 6, 107; C. R., 76, 1550	26, 70
"	"	"	....	120	Franchimont	B., 12, 2059	
Hexacetdulcite	"	"	....	171 c.	Bouchardat	C. R., 74, 665; A. C. [4], 27, 150; B. S. [2], 18, 115	25, 400
Triacetinulin	$C_{12}H_{17}Ac_3O_{10}$	$C_{18}H_{26}O_{13}$	....	100	Ferrouillet and Savigny	Z. C. [2], 5, 509	vii., 441
Desoxyphorone	....	$C_{18}H_{28}O$	....	108-109	Claison	A., 180, 10	29, 896
"	....	"	....	108	"	B., 7, 1168	28, 161
Anthropocholic acid	....	$C_{18}H_{28}O_4$	....	145	....	Z. P. C., 3, 304	
Pentaethylic propargyl penta-carboxylate	$(COOEt)_2.CH.C(COOEt)_2.CH_2(COOEt)$	$C_{18}H_{28}O_{10}$	323 (760); 275-280 (188)	....	Bischoff	B., 15, 1109, 1111	42, 1188
Lactyceryl alcohol	....	$C_{18}H_{30}O$	....	162	Hesse	N. H. C., 4, 8	
Sycoceryl alcohol	$C_{18}H_{29}.OH$	"	....	90	De la Rue and Müller	P. T. [1860], 43	v., 645
Hydrocarotin	....	"	....	126.5	Brunner	N. R. P., 24, 641	29, 940
"	....	"	....	126.8	Husemann	A., 117, 206	iii., 191
Stearolic acid	$C_{17}H_{31}.COOH$	$C_{18}H_{32}O_2$	....	46	Limpach	A., 190, 294	34, 403
"	"	"	260	48	Overbeck	J. p., 97, 159; A., 140, 50	vi., 1038
"	"	"	....	72	Cloez	C. R., 82, 501	30, 102
Ricinostearolic acid	....	$C_{18}H_{32}O_3$	....	51	....	Z. C. [1867], 547	
Ricinostearoxylic acid	....	$C_{18}H_{32}O_4$	....	78	Ulrich	B. S. [2], 9, 225	vi., 997
Stearoxylic acid	....	"	....	86	Overbeck	J. p., 97, 159; A., 140, 63	vi., 1038
Oleic acid	$C_{17}H_{33}.COOH$	$C_{18}H_{34}O_2$	250	14	Gottlieb	A., 57, 40	iv., 192
"	"	"	14	Reichardt	A. P. [3], 10, 339	32, 518

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Stearic acid....	$C_{17}H_{33}.COOH$	$C_{18}H_{34}O_2$	35	Oudemanns	J. p., 89, 193	v., 422
Elaidic acid	"	"	44-45	Meyer	A., 35, 174	ii., 368
From Stearic acid	fusion with P_2O_5	"	....	54-60	Erdmann	J. p., 25, 500	v., 416
Pelargonic anhydride	$(C_9H_{17}O)_2O$	$C_{18}H_{34}O_3$	....	5	Cahours	A. C. [3], 39, 207	iv., 371
" " ....	"	"	....	5	Chiozza	A., 85, 231	
Ethylc jalapinate ....	....	"	....	32.5	....	A., 116, 314	
Ricinoleic acid ....	....	"	....	(s.—6 to —10)	Saalmüller	J., 1, 562	v., 110
Ricinelaic acid ....	....	"	....	50	Bondet	A., 4, 16	v., 109
" " ....	....	"	....	50	Bouis	A. C. [3], 44, 82	"
" " ....	....	"	....	50	Ulrich	B. S. [2], 9, 225	vi., 997
Hydroxyoleic acid	$C_{17}H_{32}(OH).COOH$	"	....	56-58	Liechti and Suida	B., 16, 2455	48, 239
Trihydroxyoleic acid....	$C_{17}H_{30}(OH)_3.COOH$	$C_{18}H_{34}O_5$	....	64	" "	"	"
Hexadecyl methyl ketone	$Me.CO.(CH_2)_{15}.Me$	$C_{18}H_{36}O$	251-252 (100)	51-52	Krafft	B., 15, 1707	42, 1272
Stearic aldehyde ....	....	"	212-213 (22); 259-261 (100)	63.5	"	B., 13, 1417	38, 867
Cetylic acetate	$CH_3.COO.(C_{16}H_{33})$	$C_{18}H_{36}O_2$	....	18.5	Becker	A., 102, 220	i., 840
" "	"	"	222-225	18.5	Dollfus	A., 131, 284	vi., 14
" "	"	"	277-278 (190)	18.5	Perkin	....	45, 497
Hexadecylic acetate	$CH_3.COO.(CH_2)_{15}.Me$	"	199.5-200.5 (15)	22-23	Krafft	B., 16, 1714	44, 1076
Ethylc diheptylacetate	$[Me(CH_2)_6]_2.CH.COOEt$	"	308.5-311	....	Jourdan	A., 200, 114	38, 314
" palmitate	$C_{15}H_{31}.COOEt$	"	....	21.5	Berthelot	J., 6, 502	
" " ....	"	"	....	24.2	Heintz	J., 6, 447	iv., 335
Diethylacetic acid (isostearic)	$CH(C_3H_7)_2.COOH$	"	....	38.5	Guthzeit	A., 206, 351	40, 408
" " " "	"	"	270-275	38.5	"	A., 204, 11, 165	38, 872
" " " "	"	"	300	39	Conrad & Bischoff	B., 13, 597	38, 628
Cetylacetic acid	$C_{16}H_{33}.CH_2.COOH$	"	....	63.5-64	Guthzeit	A., 206, 355	40, 408
Stearic acid	$C_{17}H_{35}.COOH$	"	287 (100)	....	Krafft	B., 12, 1672	38, 34
" " ....	"	"	....	54.4-56.6	Ruedorff	P. A., 145, 279	28, 238
" " ....	"	"	....	60-61	Heintz	....	29, 8
" " ....	"	"	....	61	Oudemanns	....	36, 569
" " ....	"	"	....	68	Duffy	J., 5, 511	v., 413
" " ....	"	"	....	69	Stenhouse	A., 36, 57	"
" " ....	"	"	....	69	Schlippe	J., 11, 303	
" " ....	"	"	....	69	Reichardt	A. P. [3], 10, 339	32, 518
" "	"	"	359-383	69	Carnelley & Williams	B., 12, 1360	35, 563
" " ....	"	"	....	69.2	Pebal	A., 91, 138	v., 413
" " ....	"	"	....	69.1-69.2	Heintz	A., 84, 299	38, 872
" " ....	"	"	....	69.5	Schiff	A., 223, 247;	46, 1089
" " ....	"	"	....		G. I., 14, 181		
" " ....	"	"	....	69-70	Guthzeit	A., 206, 351	40, 408
" " ....	"	"	....	70	Redtenbacher	A., 35, 46	
" " ....	"	"	....	70	Kopp	J., 8, 43	v., 413
" " ....	"	"	....	70	Kerr	P. M. [5], 13, 165	
" " ....	"	"	....	70.5	Hardwick	2, 232	v., 413
" " ....	"	"	....	70.6	Jacobs	C. C. [1882], 384	42, 1147
" " ....	"	"	....	75	Chevreur	A. C.	v., 413
Neurostearic acid ....	....	"	....	84	Thudicum	J. p. [2], 25, 25	42, 537
Ethylc turpetholate....	....	$C_{18}H_{36}O_4$	....	72	....	A., 139, 59	
Isodioxystearic acid	$C_{17}H_{33}(OH)_2.COOH$	"	....	126	Overbeck	A., 140, 72	vi., 759
" " ....	....	$C_{18}H_{36}O_{13}$	....	50-60	Heintz	A., 157, 295	24, 363
Cetyl ethyl oxide	$Et.O.C_{16}H_{33}$	$C_{18}H_{38}O$	....	20	Becker	A., 102, 220	i., 842
Octodecyl alcohol	$CH_3.(CH_2)_{16}.CH_2.OH$	"	210.5 (15)	59	Krafft	B., 16, 1723	44, 1076
From bromcinnamic acid	....	$C_{19}H_{12}O_4$	....	a. 260	Leuckart	B., 15, 18	42, 615
" " ....	....	"	....	157	....	A., 212, 98	
Paracotoin ....	....	$C_{19}H_{12}O_6$	....	152 u.c.	Jobst and Hesse	A., 199, 31; B., 10, 249	38, 326; 32, 201
Benzoyl diphenyl	$C_6H_4.Bz.Ph = 1.4$	$C_{19}H_{14}O$	....	104	Goldschmidt	M. C., 2, 437	42, 202
" "	" = 1.?	"	....	106	Wolf	B., 14, 2032	42, 62
" " ....	....	"	....	206	....	A., 212, 97	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Benzoxo diphenyl	Ph.C ₆ H ₄ .OBz	C ₁₉ H ₁₄ O ₂	....	152	Latschinoff	B., 6, 194	vii., 938 ; 28, 750
Benzaurin	HO.C ₆ H ₄ .CPh.C ₆ H ₄ .O	"	....	100 +	Dœbner	B., 12, 1463	38, 239
Leucaurine ....	....	"	....	n. f. 130	Dale & Schorlemmer	24, 466 ; 25, 74	vii., 119
Phenylc phenoxybenzoate	PhO.C ₆ H ₄ .COOPh = 1.4	C ₁₉ H ₁₄ O ₃	....	73-78	Klepl	J. p., 28, 193	46, 447
Aurin	C ₆ H ₄ .O.C(C ₆ H ₄ .OH) ₂	"	....	150	Fresenius	....	25, 75
" ....	"	"	....	n. f. 200	Dale & Schorlemmer	M. P., 11	"
" ....	"	"	....	n. f. 220	" "	26, 435	vii., 118
Corallin ....	....	"	....	n. f. 220	" "	....	28, 441
Methylic hydroxynaphthobenzoate	COOMe.C ₆ H ₄ .CO.C ₁₀ H ₆ .OH = 1.2 ; α, β	C ₁₉ H ₁₄ O ₄	....	199	Walder	B., 16, 301	44, 666
Vulpic acid	C(OH).C : CPh.COOMe || CPh. COO	C ₁₉ H ₁₄ O ₅	....	a. 100	Strecker & Müller	A., 113, 56	v., 1007
" " ....	" "	"	....	148	Spiegel	B., 13, 1629	40, 97
Isovulpic acid ....	....	"	....	124	"	B., 15, 1552	"
Diacetchrysophanic acid	C ₁₄ H ₅ Me(OAc) ₂ : O ₂	C ₁₉ H ₁₄ O ₆	....	202-204	Liebermann	A., 183, 225	31, 611
" " ....	"	"	....	200	Liebermann and Seidler	B., 11, 1607	"
Diacetmethylquinizarin ....	"	"	....	185	Nietzki	B., 10, 2013	"
Paracotoic acid ....	....	C ₁₉ H ₁₄ O ₇	....	108	Jobst and Hesse	A., 199, 38	38, 326
Daphnetin ....	....	C ₁₉ H ₁₄ O ₉	....	a. 250	Zwenger	A., 115, 8	ii., 303
Triphenyl carbinol	(C ₆ H ₅) ₃ C.OH	C ₁₉ H ₁₆ O	a. 360	157	Hemilian	B., 7, 1206	28, 153
" " ....	"	"	....	157	Schwarz	B., 14, 1522	40, 913
" " ....	"	"	....	159	Baeyer	A., 202, 36	38, 651
" ? ....	....	C ₁₉ H ₁₆ O	....	170	....	A., 212, 91	"
Dihydroxytriphenylmethane	Ph.CH(C ₆ H ₄ .OH) ₂	C ₁₉ H ₁₆ O ₂	....	161	Dœbner	B., 12, 1464	"
Triphenylic orthoformate	CH(OPh) ₃	C ₁₉ H ₁₆ O ₃	260-270 (50-55)	71.5	Tiemann	B., 15, 2686	44, 340
From oxidation of retene ....	....	"	....	139	Ekstrand	B., 9, 855	30, 514
Tetrahydroxytriphenylmethane	Ph.CH[C ₆ H ₃ (OH) ₂] ₂	C ₁₉ H ₁₆ O ₄	....	171	Dœbner	B., 13, 611 ; A., 217, 235	38, 644
Allylenedigallein diacetate	C ₁₅ H ₁₀ O ₄ (OAc) ₂	C ₁₉ H ₁₆ O ₈	....	176	Wittenberg	J. p. [2], 26, 66	42, 1290
Carbusnic acid	See C ₁₈ H ₁₆ O ₇	"	....	195.4	Hesse	A., 137, 241	vi., 413 ; 34, 882
Isoamyloxanthranol anhydride	....	C ₁₉ H ₁₈ O	....	66	....	A., 212, 93	"
" " ....	....	"	....	71-72	....	A., 212, 94	"
Diethylic benzoylisophthalate	C ₆ H ₃ (COOEt) ₂ .Bz = 1.3.?	C ₁₉ H ₁₈ O ₅	....	95	Blatzbecker	B., 9, 1763	31, 469
Diethylic benzoyltrephthalate	" = 1.4.?	"	....	100-101	....	J. [1878], 403	"
Diacetylaphachoic acid	C ₃₈ H ₃₆ O ₁₀	"	....	131-132	Paternò	B., 16, 802 ; G. I., 12, 337	"
From orcinol	C ₁₇ H ₁₅ AcO ₅	C ₁₉ H ₁₈ O ₆	C ₃₅ H ₃₄ O ₁₁	200	Wittenberg	J. p. [2], 26, 71	42, 1290
Atranoric acid ....	....	C ₁₉ H ₁₈ O ₈	....	190	Paternò & Ogialoro	G. I., 7, 189	32, 786
" " ....	....	"	....	190-194	Paternò	G. I. [1882], 231	42, 1083
Acid from methyldeoxybenzoin	....	C ₁₉ H ₂₀ O ₂	....	92.5	Mann	B., 14, 1646	40, 1035
Isoamyloxanthranol	C ₆ H ₄ .CO.C ₆ H ₄ .C(OH).C ₆ H ₁₁	"	....	125	Liebermann	A., 212, 73 ; B., 13, 1599	42, 861
Amylene dibenzoate	C ₅ H ₁₀ (OBz) ₂	C ₁₉ H ₂₀ O ₄	....	123	Meyer	C. R., 59, 444 ; B. S. [2], 2, 451	vi., 120, 309
Dibenzoyl isovaleral	C ₄ H ₉ .CH(OBz) ₂	"	264	111	....	A., 109, 299	"
Isovaleryl oroselone	C ₆ H ₄ (OC ₆ H ₅ O).O.C ₆ H ₄ .O. CH ₂ .COH	C ₁₉ H ₂₀ O ₆	....	95-97	Hlasiwetz & Weidel	A., 174, 82	28, 257
Guajaconic acid	See C ₁₉ H ₂₂ O ₃	"	....	95-100	....	J. [1862], 467 ; M. C., 3, 822	"
Diacetyl decarbusnic acid	C ₁₅ H ₁₄ Ac ₂ O ₅	C ₁₉ H ₂₀ O ₇	....	130-131	Paternò	G. I. [1882], 231	42, 1080
Barbatic acid ....	....	"	....	186	Stenhouse & Groves	A., 203, 302	37, 407
Diacetyl picrotoxin ....	....	C ₁₉ H ₂₀ O ₈	....	245	Paternò & Ogialoro	G. I., 9, 57	36, 729
Isoamyl hydranthranol	C ₆ H ₄ .CH ₂ .C ₆ H ₄ .C(OH).C ₆ H ₁₁	C ₁₉ H ₂₂ O	....	73-74	Liebermann	A., 212, 103	42, 862

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ethyl α -ditolylpropionate	$(C_6H_4Me)_2.CMe.COEt$	$C_{19}H_{22}O_2$	....	145	Haiss	B., 15, 1476	42, 1071
α -Diethylphenylpropionic acid	$(C_6H_4Et)_2.CMe.COOH$	"	....	116	Böttiger	B., 14, 1597	40, 1035
Benzyl acetoxycymene	$C_6H_2.OAc.Me.Pr^a.CH_2Ph$	"	245 (8)	l. f. m.	Mazzara	G. I. [1881], 346 and 433	42, 172
Guajacnic acid	See $C_{19}H_{20}O_5$	$C_{19}H_{22}O_3$	....	100	Hadelich	J. p., 137, 321	ii., 947
Pyroguajacol ....	....	"	....	180.5 u. c.	Wieser	W. A. [1881], 464	40, 812
" ....	....	"	....	183	....	A., 52, 404; 119, 277	
Benzyl arbutin + H_2O	$C_6H_{11}O_6.O.C_6H_4.O.CH_2Ph$	$C_{19}H_{22}O_7$	....	161	Schiff	G. I., 13, 538	46, 432
Diacetylpirotoxiide hydrate	$C_{15}H_{16}O_7Ac_2$	$C_{19}H_{22}O_9$	....	202	Paternò & Ogliarolo	G. I., 7, 193	32, 790
Acetpodocarpic acid	$C_{16}H_{20}(OAc).COOH$	$C_{19}H_{24}O_4$	....	152	....	A., 170, 238	
Anamirtin	$C_{19}H_{26}O_2$ and $C_{46}H_{58}O_{24}$	$C_{19}H_{24}O_{10}$	....	d. 280 w. m.	Barth & Kretschy	W. A., 81, 7	40, 286
Ethyl podocarpate	$C_{16}H_{20}(OH).COEt$	$C_{19}H_{26}O_3$	....	143-146	....	A., 170, 223	
Santonin acetate ....	....	$C_{19}H_{26}O_7$	....	126-128	....	J. [1875], 608	
Turmerol ....	....	$C_{19}H_{28}O$	285-290 d. (760); 193-198(60)	Liquid	Jackson and Menke	B., 16, 571; A. C. J., 4, 368	44, 482
Ethyl ethylsantonite	$C_{14}H_{18}EtO.COOEt$	$C_{19}H_{28}O_3$	....	31-32	Cannizzaro and Carnelutti	G. I., 12, 393; B., 16, 427	44, 78
" ethylisosantonite ....	"	"	....	54	" "	" "	" "
Isobutyl santonate ....	....	$C_{19}H_{28}O_4$	....	67	Carnelutti & Nasini	B., 13, 2209	40, 181
Diethyl photosantonate ....	....	"	....	67-68	Sestini	G. I., 6, 357	31, 472
Syringin ....	....	$C_{19}H_{28}O_{10}$	....	185-190	....	A., 40, 320	
" ....	....	"	....	212	Kromayer	J. [1862], 484; [1863], 592	v., 652
Doglic acid ....	....	$C_{19}H_{36}O_2$	....	0+	Scharling	J. p., 43, 257	ii., 343
Anamirtin	See $C_{19}H_{24}O_{10}$	"	....	35-36	Francis	A., 42, 254	i., 289
Dioctylmalonic acid	$C(C_3H_7)_2(COOH)_2$	$C_{19}H_{36}O_4$	....	75	Conrad and Bischoff	A., 204, 164; B., 13, 595	38, 628
Cetylmalonic acid	$CH(C_{16}H_{33})(COOH)_2$	"	....	115-117 u. c.	Guthzeit	A., 206, 359	40, 408
Dinonylketone (caprinone)	$CO.(C_9H_{19})_2$	$C_{19}H_{38}O$	a. 350	58	Grimm	A., 157, 270	24, 360; vii., 251
Dioctylacetone ....	....	"	325-330	....	....	A., 204, 10	
Heptadecyl methylketone	$Me.CO(CH_2)_{16}.Me$	"	262.5 (100)	55.5	Krafft	B., 15, 1707	42, 1272
" "	"	"	266.5 (110)	55.5+	"	B., 12, 1672	
Methyl stearate	$C_7H_{35}.COOMe$	$C_{19}H_{39}O_2$	....	38	Hanhart	C. R., 47, 230	v., 420
" " ....	"	"	....	85 (?) pos- sibly 35	Lassaigne	A., 13, 168	"
Glycerol monopalmitin	$C_3H_5(OH)_2.O.C_{16}H_{31}O$	$C_{19}H_{38}O_4$	distils i. v.	58	Berthelot	A. C. [3], 41, 238; J., 6, 453	iv., 335
β -Dinaphthylene oxide	$C_{10}H_6.O.C_{10}H_6$	$C_{20}H_{12}O$	....	154	Dianin	J. R. [1882], 130	42, 623
β- " " ....	"	"	....	155	Knecht & Unzeitig	B., 13, 1724	40, 281
β- " " ....	"	"	....	157	Walder	B., 15, 2172	44, 209
β- " " ....	"	"	....	159	Niederhäusern	B., 15, 1122	
β- " " ....	"	"	....	161	Merz and Weith	B., 14, 200	40, 265
α- " " ....	"	"	....	180	Knecht & Unzeitig	B., 13, 1724	40, 281
α- " " ....	"	"	....	182	Merz and Weith	B., 14, 196	
α- " " ....	"	"	....	180	Niederhäusern	B., 15, 1122	
α- " " ....	"	"	....	182-184	"	"	
Phenolphthalein anhydride	$O:(C_6H_4)_2:C_6H_4.CO.O$	$C_{20}H_{12}O_3$	....	173-175	Baeyer	A., 212, 349	42, 1096
Quinolephthalein	$C_6H_4:(CO.C_6H_3.OH)_2:O$ =1.2; ?1.4	$C_{20}H_{12}O_5$	....	226 u. c.	Ekstrand	B., 11, 714	34, 675
" " ....	"	"	....	233	Grimm	B., 6, 507	"
" " ....	"	"	....	230-234 u. c.	"	"	26, 1235
Phloroglucolphthalein	$O:[C_6H_2(OH)_2]_2:C_6H_4.COO$	$C_{20}H_{12}O_7$	....	d. 240 w. m.	Link	B., 13, 1652	40, 95
β -Dinaphthyl oxide	$C_{10}H_7.O.C_{10}H_7$	$C_{20}H_{14}O$	a. 300	104	Gladstone and Tribe	....	41, 15
β- " " ....	"	"	....	105	Græbe	B., 13, 1850	40, 177
β- " " ....	"	"	....	105	Merz and Weith	B., 14, 199	40, 264
β- " " ....	"	"	....	105	Nietzki	B., 15, 306	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
α -Dinaphthyl oxide	$C_{10}H_7 \cdot O \cdot C_{10}H_7$	$C_{20}H_{14}O$	....	109-110	Merz and Weith	B., 14, 195	40, 264
Phenyl anthranol	$C_6H_4 : C_2Ph(OH) : C_6H_4$	$C_{20}H_{14}O_2$	....	141-144 d.	Schellinger	A., 202, 54	38, 651
Diphenyl phthalide (phthalophenone)	$C_6H_4 \cdot CO \cdot O \cdot CPh_2$	"	....	112	Baeyer	A., 202, 50	38, 650
" " "	"	"	....	115	Pechmann	B., 14, 1866	
Dibenzoylbenzene	$C_6H_4 \cdot Bz_2 = 1.3$	"	abt. 260	99.5-100	Ador	B., 13, 321; B. S., [2], 33, 56	38, 470
β- " " " " " " "	" = ?	"	....	145-146	Zincké	B., 9, 31	29, 703
α- " " " " " " "	"	"	....	159-160	"	"	"
Dinaphthol	$HO \cdot C_{10}H_6 \cdot C_{10}H_6 \cdot OH$	"	....	195	Kaufmann	B., 15, 807	42, 1068
β- " " " " " " "	"	"	....	217	Walder	B., 14, 2345	
β- " " " " " " "	"	"	....	218 c.	"	B., 15, 2167	
β- " " " " " " "	"	"	....	218	Dianin	B., 6, 1252	27, 262; vii., 842
α- " " " " " " "	"	"	....	300	"	"	"
Phenylloxanthrol	$C_6H_4 \cdot CO \cdot C_6H_4 \cdot CPh(OH)$	"	....	208	Schellinger	A., 202, 58	38, 651
Benzoylphenyl benzoate	$C_6H_4 \cdot Bz \cdot OBz = 1.4$	$C_{20}H_{14}O_3$	....	112.5	Grucarevic & Merz	B., 6, 1245	27, 264
" " " " " " "	" " "	"	....	112.5	Döbner and Weiss	B., 14, 1841	
" " " " " " "	" " "	"	....	112.5	Döbner	A., 210, 251	42, 508
Hydroxydiphenylphthalin	$HO \cdot C_6H_4 \cdot CPh : C_6H_4 \cdot COO$	"	....	155; 61-66	Pechmann	B., 13, 1613	40, 96
" " " " " " "	$= 1.1? ; 1.2$	"	....	235-237	Gabriel & Michael	B., 11, 1680	38, 245
Phenolphthalin anhydride	$O : (C_6H_4)_2 : CH \cdot C_6H_4 \cdot COOH$	"	....	214-217	Baeyer	A., 212, 350	42, 1097
Hydroxyphenylloxanthranol	$C_6H_4 \cdot CO \cdot C_6H_4 \cdot C(OH) \cdot C_6H_4 \cdot OH$	"	d. 175	194	Pechmann	B., 13, 1618	
Diphenylic phthalate	$C_6H_4(COOPh)_2 = 1.2$	$C_{20}H_{14}O_4$	....	60	Schreder	B., 7, 705	27, 990
" " " " " " "	" " "	"	....	70	Gerichten	B., 13, 419	38, 474
" isophthalate	" = 1.3	"	....	120	Schreder	B., 7, 708	27, 991
" terephthalate	" = 1.4	"	....	a. 100	De la Rue & Müller	A., 121, 89	v., 727
" " " " " " "	" " "	"	....	191	Schreder	B., 7, 707	27, 991
Pyrocatechol dibenzoate	$C_6H_4(OBz)_2 = 1.2$	"	....	84	Döbner	A., 210, 261	42, 508
Resorcinol dibenzoate	" = 1.3	"	....	117	Rasinski	J. p. [2], 26, 64	42, 1289
" " " " " " "	" " "	"	....	117	Döbner and Stackmann	B., 11, 2270	
Quinol dibenzoate	" = 1.4	"	....	199	Döbner and Wolff	B., 12, 661; A., 210, 263	36, 638
Dibenzoresorcinol	$C_6H_2(OH)_2 \cdot Bz_2 = 1.3.1.1?$	"	....	149	Döbner and Stackmann	B., 11, 2268	36, 320
" " " " " " "	" " "	"	....	149	Döbner	A., 210, 259	42, 508
Dibenzoquinol	" = 1.4.2.2?	"	....	207	"	A., 210, 264	
" " " " " " "	" " "	"	....	207	Döbner and Wolff	B., 12, 661	36, 638
Phenylresorcinophthalin	$C_6H_4 \cdot CO \cdot O \cdot CPh \cdot C_6H_3(OH)_2$	"	....	175-176	Pechmann	B., 14, 1860	42, 184
Phenol phthalidein	$C_6H_4 \cdot CO \cdot O \cdot C_6H_4 \cdot OH$	"	....	212	Baeyer	B., 9, 1235	31, 309
" phthalin ....	"	"	....	250-253	"	A., 202, 68	38, 653
β -Dinaphthylidiquinol	$C_{20}H_{10}(OH)_4$	"	....	176-178	Stenhouse & Groves	A., 194, 207	33, 420
Quinol phthalin	"	$C_{20}H_{14}O_5$	....	202-203 u. c.	Ekstrand	B., 11, 716	34, 676
Phenylpyrogallolphthalin	$C_6H_4 \cdot CO \cdot O \cdot CPh \cdot C_6H_2(OH)_3$	"	....	189	Pechmann	B., 14, 1864	42, 184
Acetoxynaphthobenzoic acid	$COOH \cdot C_6H_4 \cdot CO \cdot C_{10}H_6 \cdot OAc$	"	....	170	Walder	B., 16, 302	44, 666
Resorcinophthalin (fluorescein)	$C_6H_4[CO \cdot C_6H_3(OH)_2]_2$	$C_{20}H_{14}O_6$	....	d. 290 w. m.	Baeyer	A., 183, 26	31, 196

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Resorcinoxalein	$\begin{array}{c} \text{CO} \\ \diagdown \\ \text{HO} \cdot \text{C}_6\text{H}_3 \cdot \text{C}[\text{C}_6\text{H}_3(\text{OH})_2]_2 \\ \diagup \\ \text{O} \end{array}$	$\text{C}_{20}\text{H}_{14}\text{O}_7$	....	d. 150	Claus	B., 14, 2563	42, 399
Triacetoxyanthraquinone	$\text{C}_6\text{H}_4 : (\text{CO})_2 : \text{C}_6\text{H}(\text{OAc})_3$	$\text{C}_{20}\text{H}_{14}\text{O}_8$	....	171-175	Seuberlich	B., 10, 40	
(fr. anthragallol)	=2.1 ; 1.2.3.4.5						
" (fr. purpurin)	" =2.1 ; 1.2.3.4.6	"	....	190-193	Liebermann and Giesel	B., 9, 332 ; A., 183, 192	30, 90
" "	" "	"	....	198-200	Schunck & Roemer	B., 11, 553	31, 673 ; 32, 625
" (fr. oxychrysazin)	$\text{C}_{14}\text{H}_5(\text{OAc})_3\text{O}_2$	"	....	192-193	Liebermann and Giesel	B., 9, 332	30, 90
" "	"	"	....	192-193	Liebermann	A., 183, 145	31, 612
" (fr. flavopurpurin)	"	"	....	195-196	Schunck & Roemer	B., 10, 1822	34, 322
" (fr. isopurpurin)	"	"	....	220	Rosenstiehl	B. S. [2], 29, 405	34, 677
" "	"	"	....	220-222	Perkin	26, 430 ; 30, 90	vii., 90
Luteolin ....	....	"	....	320 p. d.	....	....	iii., 736
Psoronic anhydride ....	....	$\text{C}_{20}\text{H}_{14}\text{O}_9$	....	263-264	Spica	G. I., 12, 431	44, 80
Prehnomatic anhydride	$[\text{C}_6\text{H}_3(\text{OH})(\text{COOH})_3\text{CO}]_2\text{O}$	$\text{C}_{20}\text{H}_{14}\text{O}_{17}$	....	210	Baeyer	B., 4, 275	
Ketone from rosaniline ....	....	$\text{C}_{20}\text{H}_{16}\text{O}$	d. 143	148-149	E. and O. Fischer	B., 9, 900	30, 530
Triphenylacetic acid	CPh_3COOH	$\text{C}_{20}\text{H}_{16}\text{O}_2$	....	260 d.	....	A., 194, 261	
Benzhydrylbenzoate	CHPh_2COBz}	"	....	87.5-89	Linnemann	A., 133, 20	iv., 479
Benzylphenolbenzoate	$\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4\text{OBz}$	"	....	86	Paternò and Fileti	G. I., 3, 121 ; J. [1873], 440	27, 372
Triphenylmethane carboxylic acid	$\text{CHPh}_2\text{C}_6\text{H}_4\text{COOH}$	"	....	150	Pechmann	B., 14, 1866	
" "	"	"	....	155-157	Baeyer	A., 202, 52	38, 651
Hydroxytriphenylmethane carboxylic acid	$\text{CPh}_2(\text{OH})\text{C}_6\text{H}_4\text{COOH} = 1.2$	$\text{C}_{20}\text{H}_{16}\text{O}_3$	....	150	Fischer	A., 194, 242	46, 323
" "	" =1.3	"	....	160-162	Hemilian	B., 16, 2369	"
" "	" = ?	"	....	187	"	B., 7, 1210	28, 153
" "	$\text{CHPh}(\text{C}_6\text{H}_4\text{OH})\text{C}_6\text{H}_4\text{COOH}$	"	....	210	Pechmann	B., 13, 1616	40, 97
Ethyl α -phenanthroxylene-isocrotonate	$\begin{array}{c} \text{C}_6\text{H}_4\text{C}=\text{C}-\text{CH}:\text{CH}_2 \\ | \quad \quad \quad | \\ \text{C}_6\text{H}_4\text{CO} \quad \quad \text{COOEt} \end{array}$	"	....	124	Japp and Streatfield	B., 16, 278	43, 30
Rosolic acid	$\begin{array}{c} \text{C}_6\text{H}_4 \\ | \\ \text{O} \end{array} > \text{C} \begin{array}{l} \text{C}_6\text{H}_3\text{Me}(\text{OH}) \\ \text{C}_6\text{H}_4\text{OH} \end{array}$	"	....	n.f. 270	Græbe and Caro	A., 179, 184	29, 589
" (hydrate) ....	....	"	....	15.6	Fresenius	....	vii., 1061
Dihydroxy triphenylmethane carboxylic acid	$\text{C}_6\text{H}_3(\text{OH})_2\text{CHPh.C}_6\text{H}_4\text{COOH} = 1.3.7 ; 1.2$	$\text{C}_{20}\text{H}_{16}\text{O}_4$	....	184	Pechmann	B., 14, 1862	42, 184
" "	$(\text{HO.C}_6\text{H}_4)_2\text{CH.C}_6\text{H}_4\text{COOH}$	"	....	225	Baeyer	A., 202, 80	38, 654
(phenol phthalin)	....					
Ethyl phenanthroxylene-aceto-acetate	$\begin{array}{c} \text{C}_6\text{H}_4 \quad \text{C}=\text{C}-\text{CO.Me} \\ | \quad \quad \quad | \\ \text{C}_6\text{H}_4-\text{CO} \quad \quad \text{COOEt} \end{array}$	"	....	184.5-185.5	Japp and Streatfield	B., 16, 275	43, 27
Ethyl hydroxynaphthobenzoate	$\text{HO.C}_{10}\text{H}_6\text{CO.C}_6\text{H}_4\text{COOEt}$ = $\alpha_1 \beta$; 1.2	"	....	206	Walder	B., 16, 302	44, 666
From rosolic acid	$\text{C}_{20}\text{H}_{18}\text{O}_6$	"	....	abt. 200	Græbe and Caro	A., 179, 184	29, 589
Dimethylic pulvate	$\text{C}_{16}\text{H}_9\text{OH}(\text{COOMe})_2$	$\text{C}_{20}\text{H}_{16}\text{O}_5$	....	138-139	Spiegel	B., 13, 1634	40, 97
Ethylpulvic acid	$\text{C}_{16}\text{H}_9\text{OEt}(\text{COOH})_2$	"	....	127-128	"	"	"
Diacetoxyacetanthranol	$\text{C}_6\text{H}_4 : \text{C}_2\text{H}(\text{OH}) : \text{C}_6\text{H}_2(\text{OH})_2$ =2.1 ; 1.2.3.4	$\text{C}_{20}\text{H}_{16}\text{O}_6$	....	188	Roemer	B., 14, 1263	40, 823
Diacetylcampheride	$\text{C}_{16}\text{H}_{10}\text{Ac}_2\text{O}_6$	$\text{C}_{20}\text{H}_{16}\text{O}_8$	....	188-189	Jahns	B., 14, 2388	42, 209
Purpurogallin ....	....	$\text{C}_{20}\text{H}_{16}\text{O}_9$	....	256	Clermont & Chautard	C. R., 94, 1362	42, 1065
Tolyldiphenyl carbinol	$\text{Me.C}_6\text{H}_4\text{CPh}_2\text{OH} = 1.4$	$\text{C}_{20}\text{H}_{16}\text{O}$	....	150	E. and O. Fischer	A., 194, 283	36, 386
Dibenzyl pyrocatechol	$\text{C}_6\text{H}_4(\text{O.CH}_2\text{Ph})_2 = 1.2$	$\text{C}_{20}\text{H}_{18}\text{O}_2$	....	61	Pellizzari	G. I., 13, 501	46, 437
" resorcinol	" =1.3	"	....	79	"	"	"
" quinol	" =1.4	"	....	130	"	"	"
Dibenzhydryl benzene	$\text{C}_6\text{H}_4(\text{CHPh.OH})_2$	"	....	171	Wehnen	B., 9, 310	29, 916
? acid ....	....	"	....	156	....	A., 195, 368	
Essence of linaloes ....	....	"	198 (755)	Liquid	Morin	C. R., 92, 998	40, 738
Oxocetenyl acetate	$\text{C}_{18}\text{H}_{15}\text{AcO}_2$	$\text{C}_{20}\text{H}_{18}\text{O}_3$	200-202	Liquid	Butlerow	J. R. [1882], 190	42, 937

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Phenolphthalol	(HO.C ₆ H ₄) ₂ .CH.C ₆ H ₄ .CH ₂ OH	C ₂₀ H ₁₈ O ₃	....	190	Baeyer	A., 202, 87	38, 655
Methylic polyporate ....	....	C ₂₀ H ₁₈ O ₄	....	187	....	A., 187, 193	
Acetyl compound of ethyl-oxanthrol (?)	....	"	....	84	Liebermann	A., 212, 92	42, 861
From rosolic acid	C ₂₀ H ₁₆ O ₄	C ₂₀ H ₁₈ O ₅	....	abt. 200	Græbe and Caro	A., 179, 184	29, 589
Dimethylic dibenzoyl dextro-tartarate	COOMe(CHOBz) ₂ .COOMe	C ₂₀ H ₁₆ O ₈	d.	132	Anschütz	B., 14, 2790	42, 831
" " "	"	"	....	132	Pictet	B., 15, 2243	
Ethylic diphenyl fumarate	COOEt.CPh : CPh.COOEt	C ₂₀ H ₂₀ O ₄	....	54	Reimer	B., 13, 745	40, 48
Diacetonephenanthraquinone	C ₆ H ₄ .C(OH).CH ₂ .CO.Me	"	....	187 d.	Japp	B., 16, 283	44, 597
" " "	C ₆ H ₄ .C(OH).CH ₂ .CO.Me	"	....			
Isoamylchrysin	C ₁₅ H ₉ .(C ₅ H ₁₁)O ₄	"	....	125	Piccard	B., 10, 177	32, 342
Tannic acid (from oak bark)	....	C ₂₀ H ₂₀ O ₉	....	140	Etti	M. C., 4, 512	44, 996
Frangulin ....	....	C ₂₀ H ₂₀ O ₁₀	....	225	Faust	A., 165, 230	26, 503
" " " "	....	"	....	226	"	"	"
" " " "	....	"	....	249	Casselmann	A., 104, 77	vii., 534
Luteic acid ....	....	C ₂₀ H ₂₀ O ₁₂ (?)	....	273-274	Höhn	A. P. [2], 140, 218	vii., 495
Dicumyl (cuminil)	(C ₆ H ₄ .Pr.CO) ₂	C ₂₀ H ₂₂ O ₂	300	Liquid	Chiozza	A. C. [3], 39, 246	ii., 182
" " " "	"	"	a. 300	Liquid	Church	P. M. [4], 25, 522	vi., 515
" " " "	"	"	....	84	Bösler	B., 14, 325	40, 421
β-Dipropylcarbobenzoic acid	....	"	....	90	Zagoumeny	A., 184, 167	32, 194
α- " " "	....	"	....	139	"	"	"
Dibenzoyldurene	C ₆ Me ₄ Bz ₂	"	....	269-270	Friedel, Crafts and Ador	C. R., 88, 880	36, 713
Eugenylic cuminate	C ₆ H ₄ .Pr.CO(C ₁₀ H ₁₁)	C ₂₀ H ₂₂ O ₃	a. 400	very easily	Cahours	A. C. [3], 41, 491	ii., 180
Eugenic anhydride	(C ₁₀ H ₁₁ O) ₂ O	"	....	s. 130	Oeser	A., 131, 281	vi., 609
Diethylic diphenylsuccinate	COOEt.(CHPh) ₂ .COOEt	C ₂₀ H ₂₂ O ₄	....	84-85	Reimer	B., 14, 1804	42, 200
" diphenylisuccinate	CH ₂ Ph.CPh(COOEt) ₂	"	....	136	"	"	"
Mangostin ....	....	C ₂₀ H ₂₂ O ₆	....	190	....	A., 93, 83	
Diethylic ethylene salicylate	C ₂ H ₄ (O.C ₆ H ₄ .COOEt) ₂ =(1.2) ₂	C ₂₀ H ₂₂ O ₆	....	96-97	Weddige	J. p. [2], 20, 128	38, 317
Populin (benzoyl salicin)	C ₁₃ H ₁₇ BzO ₇	C ₂₀ H ₂₂ O ₈	....	180	....	A.	iv., 689
Hydrocærulignone diacetate	[C ₆ H ₂ (OMe) ₂ .OAc] ₂	"	....	216	Liebermann	B., 6, 382	vii., 377; 26, 1033
" " "	"	"	....	217-225	....	A., 169, 236	
Erythrite diorsellinate ....	....	C ₂₀ H ₂₂ O ₁₀	....	137	....	A.	ii., 502
(Erythric acid ; Erythrin)	....	....	....	....	....	....	....
Desoxycuminoïn	Pr.C ₆ H ₄ .CH ₂ .CO.C ₆ H ₄ .Pr	C ₂₀ H ₂₄ O	....	58	Bösler	B., 14, 325	40, 421
Cuminoïn	Pr.C ₆ H ₄ .CH(OH).CO.C ₆ H ₄ .Pr	C ₂₀ H ₂₄ O ₂	....	98	"	B., 14, 324	"
" " " "	"	"	....	101	Widmann	B., 14, 610	40, 597
" " " (isomer)	"	"	....	138	Raab	B., 10, 55	32, 894
Cuminilic acid	(Pr.C ₆ H ₄) ₂ .C(OH).COOH	C ₂₀ H ₂₄ O ₃	....	119-120	Bösler	B., 14, 326	40, 421
Opoponax resin ....	....	C ₂₀ H ₂₄ O ₇	....	100	....	....	iv., 211
Dipropyldiphenylpinacone	CHPhPr.O.O.CHPhPr	C ₂₀ H ₂₆ O ₂	....	64	Schmidt & Fieberg	B., 6, 499	27, 75
Hydrocuminoïn	[CH(OH).C ₆ H ₄ .Pr] ₂	"	....	131	Raab	B., 10, 54	32, 894
" " " "	"	"	....	135	Bösler	B., 14, 324	40, 421
" " " "	"	"	....	?	Claus	A., 137, 104	
Diethoxydiethyldiphenyl	EtO.Et.C ₆ H ₃ .C ₆ H ₃ .Et.OEt	"	....	120 c.	Schultz	B., 17, 475	46, 904
β-Dithymol ....	....	"	....	154	....	J. R. [1882], 130	
α- " " " "	....	"	....	162	....	J. R., 7, 9	
α- " " " "	....	"	....	165.5	Dianin	J. R. [1882], 130	42, 624
Reduction of oil of anise ....	....	"	220-224	Liquid	Ladenburg	B., 2, 372	vi., 157
Guyaquillite ....	....	C ₂₀ H ₂₆ O ₃	....	70-100	Johnson	P. M., 13, 329	ii., 962
Guaiaretic acid ....	....	C ₂₀ H ₂₆ O ₄	....	75-80	Hlasitwetz and Gilm	A., 119, 266	ii., 948
Pyrolivilic acid	2C ₁₀ H ₁₂ O ₂ .H ₂ O	C ₂₀ H ₂₆ O ₅	a. 200	Liquid	Sobrero	A., 54, 206	iv., 760
Asarone (asarin) ....	....	"	280	40	Blanchet and Sell ; Schmidt	A., 6, 296 ; 53, 156	i., 414
Tetrethoxydihydroxy-diphenyl	[C ₆ H ₂ (OEt) ₂ OH] ₂	C ₂₀ H ₂₆ O ₆	....	176 d.	Hofmann	B., 11, 802	34, 871
Absinthin ....	....	C ₂₀ H ₂₈ O ₄	....	120-125	....	J. [1861], 745	
Elaterin ....	....	C ₂₀ H ₂₈ O ₅	....	200	Richter	R. K. T., 408	
Isocholanic acid ....	....	C ₂₀ H ₂₈ O ₆	....	239	Latchinoff	B., 15, 713	42, 874

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Cholanic acid....	$C_{20}H_{38}O_6$	....	a. 250 d.	Tappeiner	A., 194, 231	38, 388
" "....	"	285	Latschinoff	B., 15, 713	42, 874
" "....	"	285	"	B., 13, 1054	
Resinein....	$C_{20}H_{30}O$	a. 250	....	Freymy	A., 15, 284	41, 167
From Resina Guaiaci Peruviana aromatica v. odorata	"	285-290	....	Kopp	A. P. [3], 9, 193	31, 717
From essence of sandal wood	"	240	....	Chapoteaut	B. S., 37, 303	44, 76
" ?	"	289	....	Mössmer	A., 119, 257	ii., 759
Copaibic acid....	$C_{20}H_{30}O_2$	....	126-129	Brix	M. C., 2, 537	42, 66
Sylvic acid....	"	129	Duvernoy	A., 148, 147	vii., 379
" "....	"	129-165	Maly	A.	"
" "....	"	145	Richter	R. K. T.	
" "....	"	152.5	Trommsdorff	A., 13, 169	v., 649
" "....	"	162	Sievert	J. [1859], 508	"
Pimaric acid.... (laevorotary)	(contains about 0.4 % H_2O)	"	....	abt. 125	Laurent	A. C.	iv., 645
" "....	"	125	Cailliot	B. S. [2], 21, 387	28, 457
" "....	"	143	Duvernoy	A., 148, 143	vi., 945
" "....	"	145	Cailliot	B. S. [2], 21, 387	28, 458
" "....	"	145	Laurent	"	"
" "....	"	a. 320	149	Duvernoy	A., 148, 143	vi., 945
" "....	"	155	Sievert	J., 12, 510	"
" "....	"	158; 153	"	Z. g. N., 14, 311	iv., 645
" ".... (dextrorotary)	"	a. 200	Cailliot	B. S. [2], 21, 387	28, 458
Action of Na on camphor....	$C_{20}H_{30}O_2$	....	141	Kachler and Spitzer	M. C., 4, 494	44, 1007
Acetyl campherphoron....	$C_{20}H_{30}O_3$	230-240	Liquid	Schwanert	A., 123, 312	vi., 390
Gentiopicroin....	$C_{20}H_{30}O_{12}$	....	120-125	....	J. [1862], 483	
Colophene....	$C_{20}H_{32}O$	318-320	....	Richter	R. K. T., 409	
Metaterebenthene....	"	a. 360	....	....	A. C. [3], 39, 19	
Fluavil....	"	42	....	J. [1859], 518	
Ceroxylin....	"	a. 100	....	....	iv., 337
Caryophyllin....	$C_{20}H_{32}O_2$	sb. 285	....	Muspratt	B., 6, 1053	27, 80
Sycocerylic acetate....	$C_{15}H_{29}OAc$	"	....	118-120	De la Rue & Müller	P. T. [1860], 43	v., 646
Lactucerin....	"	210	Hesse	N. H. C., 4, 8	
Carbocamphoric acid....	$C_{20}H_{32}O_6$	....	123-124	....	M. C., 3, 213	
Melanthin....	$C_{20}H_{34}O_7$ (?)	....	205	Greenish	P. J. T. [3], 10; 909, 1013	38, 719
Terpinol....	$C_{20}H_{34}O$	157	....	Anderson	J., 22, 789	
"....	$(C_{10}H_{17})_2O$	"	167-168	....	Stillmann	B., 13, 630	38, 670
"....	"	168	....	List	A., 67, 367	33, 247; v., 923
"....	"	165-208	....	Oppenheim	A. [1864], 149	33, 247
From Coriandrum sativum....	"	168-170	Liquid	Grosser	B., 14, 2488	42, 525
Cajputene hemihydrate....	$(C_{10}H_{16})_2 \cdot H_2O$	"	170-175	Liquid	Schmidl	14, 63	i., 712
" ?	"	180-190	....	....	Z. C. [1866], 465	
Geranyl oxide....	$(C_{10}H_{17})_2O$	"	187-190	Liquid	Jacobsen	A., 157, 238	vii., 553
Borneol oxide....	"	"	285-290	....	Braylants	B., 11, 456	
Black cummin oil....	$2C_{10}H_{16} \cdot H_2O$	"	256	....	Flückiger	P. J. T. [2], 2, 161	vii., 852
Quebrachol....	"	125 n. c.	Hesse	A., 211, 272	42, 744
Icican....	"	157	Scribe	A. C. [3], 13, 166	iii., 242
Amyrin....	$(C_5H_8)_4 + H_2O$	"	$C_{25}H_{42}O$ (?)	177	Buri	N. R. P., 25, 193	30, 423
Hartin....	$C_{20}H_{34}O_2$	....	210	Schrötter	P. A., 59, 45	
" ?....	"	249 d.	Liquid	Genther	J. Z. N., 7, 218; J. p., 6, 160	25, 607
Axlepine....	$C_{20}H_{34}O_3$	....	104	List	A., 69, 125	i., 416
Divalerylene divaleric acid....	"	295	125.5-128.5	Greiner	Z. C. [1866], 462	vi., 601
Pyrolithofellic acid....	"	205	....	A., 44, 290	iv., 760
Cyclamin....	$C_{20}H_{34}O_{10}$	....	236	....	A., 185, 214; B. S., 32, 417	
Excretin....	$C_{20}H_{36}O$	....	95-96	....	A., 166, 213; J. [1854], 713	
Lithofellic acid....	Superfused, m.p. = 105-110	$C_{20}H_{36}O_4$	....	204-205	Roster	B., 12, 1926	
" "....	"	199	"	"	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Lithofellic acid	....	$C_{20}H_{36}O_4$	....	204	Göbel	A., 39, 242	v., 1092
" "	....	"	....	205	Wöhler	A., 41, 150	"
" "	....	"	....	205 c.	Roster	G. I., 9, 364	38, 131
Ethyl oleate	$C_{17}H_{33}.COOEt$	$C_{20}H_{38}O_2$	306-308 (307)	....	Perkin	....	45, 537
" elaidate	"	"	a. 310	Liquid	Laurent	A. C. [2], 65, 294	ii., 368
" "	"	"	370 d.	....	"	A., 28, 255	"
From valeral	....	$C_{20}H_{38}O_3$	260-290	Liquid	Borodin	B., 5, 481	26, 58; vii., 1196
" "	....	"	260-290	....	Pott	B. S., 18, 244	"
Ethyl diheptylaceto-acetate	$[Me(CH_2)_6]_2.CAc.CO OEt$	"	331-333	Liquid	Jourdan	A., 200, 114	38, 314
Bryoidin	$2(C_{10}H_{18}).3H_2O$	"	....	135-136	Phœbus	N. R. P., 24, 220	29, 615
Ethyl ricinelaidate	....	"	....	16	....	B., 60, 324	"
From isobutaldehyde	....	$C_{20}H_{38}O_4$	223-225	Liquid	Perkin	....	43, 96
" "	....	"	230-240	....	Urech	B., 13, 593	"
Isoamylic sebate	$C_8H_{16}.(COOC_6H_{11})_2$	"	360-370	10	Neison	J. [1876], 577	29, 322
" "	....	"	366	....	"	C. N., 32, 298	"
Octodecylic acetate	$CH_3.(CH_2)_{16}.CH_2.OAc$	$C_{20}H_{40}O_2$	222-223 (15)	31	Krafft	B., 16, 1722	44, 1076
Cetyl butyrate	$C_8H_7.CO O(C_{16}H_{33})$	"	260-270	20	Dollfus	J., 17, 518; A., 131, 285	"
Ethyl stearate	$C_{17}H_{35}.COOEt$	"	....	27	Lassaigne	A., 13, 168	v., 420
" "	"	"	....	30-31	Redtenbacher	A., 35, 51	"
" "	"	"	....	31	Hanhart	C. R., 47, 230	"
" "	"	"	....	32	Francis	A., 42, 261	"
" "	"	"	....	32.9	Pebal	A., 91, 154	"
" "	"	"	....	33.3	Crowder	J. p., 57, 292	"
" "	"	"	224 p.d.	33.7	Duffy	5, 197	"
" "	"	"	....	33.7	Heintz	J. p., 66, 1	"
Ethyl isostearate	$(C_8H_{17})_2.CH.CO OEt$	"	....	1.0	Guthzeit	A., 204, 13	38, 872
Arachidic acid	$C_{19}H_{39}.COOH$	"	....	73	Fitz	B., 4, 444	24, 703
" "	"	"	....	73	Rémont	J. P. [5], 2, 136, 213	40, 203
" "	"	"	....	75	Gössmann	A., 89, 1	i., 353
" "	"	"	....	75	Oudemans	J. p., 99, 407	vi., 190
" "	"	"	....	77	Tassinari	G. I., 8, 305	36, 307
Saponifn. of $C_{20}H_{36}O_2(OAc)_2$	....	$C_{20}H_{42}O_4$	217-223	Liquid	Perkin	....	43, 99
Fr. ethyl naphthylcarbonate	$(C_{10}H_7)_2.CO_2$	$C_{21}H_{12}O_2$	....	240	Bender	B., 13, 702	40, 48
Dinaphthyl ketone	$(C_{10}H_7)_2.CO = \alpha\beta$	$C_{21}H_{14}O$	....	125	Merz & Grucarevic	B., 6, 966	26, 1233
" "	" "	"	....	125.5	Grucarevic & Merz	B., 6, 1242, 1249	27, 264
" "	" = $\alpha\alpha$	"	....	135	" "	B., 6, 1241	vii., 940
" "	" "	"	....	135	Kollaritz and Merz	B., 6, 536	26, 1035
" "	" = ?	"	....	140	" "	B., 6, 546	"
" "	" = $\beta\beta$	"	....	164	Merz & Grucarevic	B., 6, 966	26, 1233
" "	" "	"	....	164	Hausmann	B., 8, 1505	29, 599
" "	" "	"	....	164-164.5	"	B., 9, 1515	31, 318
" "	" "	"	....	164.5-165	Grucarevic & Merz	B., 6, 1242, 1249	27, 264
From dry distillation of Ca β -naphthol	....	"	....	300-305	Niederhausen	B., 15, 1123	42, 1211
α -Dibenzoyl benzoic acid	$(C_6H_5.CO)_2.C_6H_5.CO OH$	$C_{21}H_{14}O_4$	....	80-82	Weber and Zincké	B., 7, 1154	26, 156
β- " " "	"	"	....	210-212	" "	"	"
Triphenylmethane-anhydro-carboxylic acid	$COO.CPh_2.C_6H_5.CO OH$	"	....	244-246	Hemilian	B., 16, 2373	46, 323
	$COOH.CO = 1.3$						
Dihydroxybenzoyl hydroxy-benzoic acid	$C_6H_4(OH).COO.C_6H_4.CO O. C_6H_4.CO OH = (1.4)_3$	$C_{21}H_{14}O_7$	....	280	Klepl	J. p., 28, 193	46, 447
" " "	....	"	....	275	....	J. p., 25, 525	"
Benzolone	....	$C_{21}H_{15}O_2 (?)$	....	248	Rochleder	A., 41, 94	i., 562
Methylphenylanthranol	$C_6H_5.Me : C_2Ph(OH) : C_6H_4$	$C_{21}H_{16}O$	....	156-157	Hemilian	B., 16, 2366	46, 322
	$Me.C(OH) = 1.4$						
Methyl diphenylphthalide	$C_6H_5.Me.CO O.CPh_2 = 1.4?$	$C_{21}H_{16}O_2$	sb. 360	179	"	B., 16, 2362	46, 321
Dinaphthoxymethylene	$CH_2(O.C_{10}H_7)_2 = \beta\beta$	"	....	133-134	Koelle	B., 12, 1954	40, 177

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylphenyloxanthrol	$C_6H_3Me.CO.C_6H_4.CPh(OH)$ Me.CO = 1.4	$C_{21}H_{16}O_2$	....	195	Hemilian	B., 16, 2366	46, 322
?-Ketone	2 isomers	"	300-305 (30-40)	....	Weber and Zincké	B., 7, 1156	
Benzoin benzoate	$C_{14}H_{11}BzO_2$	$C_{21}H_{16}O_3$	....	125	Zinin	A., 104, 117	i., 560
Orcin dibenzoate	$C_7H_6(OBz)_2$	$C_{21}H_{16}O_4$	....	40	De Luynes	Z. C. [2], 4, 703	vi., 885
" ....	"	"	....	88	....	J. p. [2], 26, 65	
Triphenylmethane dicarboxylic acid	$CHPh_2.C_6H_3(COOH)_2=?1.3$	"	....	278-280	Hemilian	B., 16, 2375	46, 323
Methylic acetylfulvate	$C_{17}H_{10}O_3Ac.COOMe$	$C_{21}H_{16}O_6$	....	156	Spiegel	B., 13, 1634	40, 97
Triacetylangelin	$C_{15}H_7O_6Ac_3$	$C_{21}H_{16}O_8$	....	140-142	Jahns	B., 14, 2808	42, 866
Triacetyl emodin	$C_{14}H_4.Me.(OAc)_3:O_2$	"	....	190	Liebermann	A., 183, 163; B., 8, 971	31, 610; 29, 252
Tetracetylanhydroxyrogallol ketone	$CO:[C_6H_2(OAc)_2]:O$	$C_{21}H_{16}O_{10}$	....	237	Buchka	A., 209, 271	42, 61
Tolyldiphenylacetic acid ...	$Me.C_6H_4.CPh_2.COOH=1.4$	$C_{21}H_{16}O_2$	$C_{22}H_{20}O_2?$	78-83	Thörner	A., 189, 83	34, 69
Tolyldiphenylmethane carboxylic acid	$CHPh_2.C_6H_3.Me.COOH$ = 5.1.4	"	....	217	Hemilian	B., 16, 2364	46, 322
Isohydrobenzoin benzoate	$C_{14}H_{12}(OBz).OH$	$C_{21}H_{18}O_3$	....	130	Forst and Zincké	A., 182, 285	30, 636
Hydrobenzoin benzoate ....	"	"	....	160-161	" "	A., 182, 277	30, 635
Tolyldiphenylhydroxy methane carboxylic acid	$CPh_2(OH).C_6H_3.Me.COOH$ =?1.3	"	....	250-255	Hemilian	B., 16, 2371	46, 323
Resocyanin ....	....	$C_{21}H_{18}O_6$	....	185	....	J. p. [2]	
Catechin	From brown catechu	$C_{21}H_{16}O_8$	v. $C_{21}H_{20}O_8$	140	Gautier	C. R., 85, 342	32, 892
"	" yellow catechu	"	v. $C_{16}H_{18}O_8$	188-191	"	"	"
Ethoxytriphenylmethane	$CPh_3.OEt$	$C_{21}H_{20}O$	....	78	Hemilian	B., 7, 1208	28, 153
Toluquinhydrone ....	....	$C_{21}H_{20}O_5$	....	52	Nietzki	B., 10, 835	32, 476
Leucotin	cf. $C_{34}H_{32}O_{10}$	"	....	97 u. c.	Jobst and Hesse	B., 10, 252	32, 201
Cotoin	cf. $C_{22}H_{18}O_6$	"	....	124	Jobst	C. C. [1876], 167; N. R. P., 25, 23	31, 480; 30, 425
Acetone on furfuraldehyde	$C_8H_8O_2$ cf. B., 14, 2469	"	229 pd.	37.5	Schmidt	B., 14, 1459	40, 889
Oxyleucotin	cf. $C_{34}H_{32}O_{12}$	$C_{21}H_{20}O_7$	....	133 u. c.	Jobst and Hesse	B., 10, 251	32, 201
Catechin	cf. B., 13, 694	$C_{21}H_{20}O_9$	v. $C_{21}H_{18}O_6$	217	....	A.	
From catechin ....	....	$C_{21}H_{20}O_{10}$	....	b. 100	....	B. S., 4, 8	
Resin from rosewood ....	....	$(C_{21}H_{21}O_6)_n$	....	95	Terreil and Wolff	B. S. [2], 33, 435	38, 559
Acetylisoamyloxanthrol (?)	....	$C_{21}H_{22}O_3$	....	73	....	A., 212, 90	
Columbin ....	....	$C_{21}H_{22}O_7$	....	182	Paternò & Ogliarolo	G. I., 9, 64; B., 12, 685	36, 730
β -Salylic acid	$3C_7H_6O_2.2H_2O$	$C_{21}H_{22}O_8$	....	94-95	Städeler	As., 7, 162	vii., 1073
Datiscin ....	....	$C_{21}H_{22}O_{12}$	....	180	Stenhouse	A., 98, 167	ii., 306
Fraxin	$C_{16}H_{18}O_{10}?$	$C_{21}H_{22}O_{13}$	$C_{27}H_{30}O_{17}$	320	Rochleder	P. A., 107, 331	ii., 709
Isophlorizin ....	....	$C_{21}H_{24}O_{10}$	....	begins 105	"	Z. C. [2], 4, 741	vi., 927
Phlorizin ....	....	"	....	109	Stas	B., 14, 303	iv., 494
" ....	....	"	....	110	Schiff	"	40, 439
β -Erythrin + H_2O ....	....	"	....	115-116	....	A., 134, 245; B. S., 2, 424	
Picrotin	cf. $C_{25}H_{30}O_{12}$	"	....	240-245	Schmidt & Löwenhardt	B., 14, 818	40, 471
Teucrin ....	....	$C_{21}H_{24}O_{11}(?)$	....	228-230	Ogliarolo	G. I., 8, 440; B., 12, 296	36, 728
Esculin	cf. $C_{15}H_{16}O_9$	$C_{21}H_{24}O_{13}$	....	160	....	A.	i., 60
Dithymyl carbonate	$CO(O.C_6H_3.Me.Pr)_2$	$C_{21}H_{26}O_3$	a. 270	48	Richter	J. p., 27, 503	44, 1112
Helenin	cf. C_6H_8O	$C_{21}H_{28}O_3$	275-280	72	....	....	iii., 138
Heptinic acid	$3(C_7H_{10}O_2)+H_2O$	$C_{21}H_{30}O_6$	....	150-151	Demarçay	B. S. [2], 33, 575; A. C. [5], 20, 471; C. R., 86, 1135	34, 661; 40, 255
Benzomyristic anhydride	$C_{14}H_{27}O.OBz$	$C_{21}H_{32}O_3$	....	36	....	A., 91, 104	iii., 1073
" ....	"	"	....	38	Chiozza & Malerba	G. T., 2, 789	i., 558
Benzoxymyristic acid ...	$C_{14}H_{27}BzO_3$	$C_{21}H_{32}O_4$	....	68	Müller	B., 14, 2482	42, 497
Atherosperma resin ....	....	$C_{21}H_{32}O_5$	....	114	Zeyer	J. [1861], 769	vi., 231

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Hydroxyheptinic acid	$3C_7H_{10}O_3 \cdot H_2O$	$C_{21}H_{32}O_{10}$	....	185	Demarçay	C. R., 86, 1135	34, 662
Borneol carbonate	$(C_{10}H_{17})_2CO_3$	$C_{21}H_{34}O_3$	....	215	Haller	C. R., 94, 86 ; 98, 578	42, 528 ; 46, 755
Menthol carbonate*	$(C_{10}H_{19})_2CO_3$	$C_{21}H_{38}O_3$	....	105	Arth	C. R., 94, 872	42, 1213
Aldehyde from cenanthaldehyde	$Me.(CH_2)_5.CH : C.(CH_2)_4Me$ $CH_2.CH(COOH)(CH_2)_4Me$	$C_{21}H_{40}O$	315-317 (300)	l. -10	Perkin	B., 16, 1030	43, 72
Cetylic isovalerate	$C_4H_9.COO(C_{16}H_{33})$	$C_{21}H_{42}O_2$	280-290 (202)	25	Dollfus	A., 131, 286	v., 980
Isoamyl palmitate	$C_{16}H_{31}.COO(C_5H_{11})$	"	....	9	Berthelot	J., 6, 503	iv., 335
" " " " " " " " " " " "	"	"	....	13.5	Duffy	5, 314	"
Methylic arachidate	$C_{19}H_{39}.COOMe$	"	....	54-54.5	Caldwell	A., 101, 98 ; J., 9, 492	"
Medullic acid	$C_{20}H_{41}.COOH$	"	....	72.5	Eylerts	A. P. [2] 104, 129	iii., 864
Benzostearic acid	"	"	$C_{22}H_{44}O_2$	76	....	....	i., 538
Glycerolmonstearate (mono-stearin)	$C_3H_6(OH)_3(O.C_{18}H_{35}O)$	$C_{21}H_{42}O_4$	....	61	Berthelot	A. C. [3], 41, 221	v., 422
Isoamyl cetyl oxide	$C_6H_{11}.O.C_{16}H_{33}$	$C_{21}H_{44}O$	....	30	Becker	A., 102, 220	i., 842
From (cenantaldehyde) _n ....	....	$C_{21}H_{44}O_2$	297-300	l.-20	Perkin	....	43, 87
" β-naphthol aldehyde	$C_{22}H_{12}.O$	$C_{22}H_{12}O$	....	198	Rousseau	A. C. [5], 28, 145	46, 180
" " " " " " " " " " " "	$C_{22}H_{13}.OH$	$C_{22}H_{14}O$	....	250	"	"	"
" " " " " " " " " " " "	$C_{10}H_6.C(OH) : C(OH).C_{10}H_6$	$C_{21}H_{14}O_2$	....	230 d.	"	C. R., 94 and 95	"
Naphthoic anhydride	$(C_{10}H_7CO)_2.O = \alpha\beta$	$C_{22}H_{14}O_3$	....	126	Hausmann	B., 9, 1515	31, 318
" " " " " " " " " " " "	" $= \beta\beta$	"	....	133-134	"	"	31, 317
" " " " " " " " " " " "	" $= \alpha\alpha$	"	....	145	Hofmann	B., 1, 42 ; A., 142, 121	vi., 852
?	$C_8H_4O(OBz)_2$	$C_{22}H_{14}O_5$	....	165	Michael and Comey	A. C. J., 5, 349	46, 598
Phenyl anthranolic acetate	$C_6H_4 : C_2Ph(OAc) : C_6H_4$	$C_{22}H_{16}O_2$	....	165-166	Baeyer	A., 202, 57	38, 651
Tribenzoyl methane	$CHBz_3$	$C_{22}H_{16}O_3$	....	224-225	Baeyer and Perkin	B., 16, 2135	46, 64
Cresol phthalein anhydride....	$O : (C_6H_3Me)_2 : C.C_6H_4.COO$ $= (1.4. ?)_2 ; 1.2$	"	....	246	Drewsen	A., 212, 340	42, 1098
Phenyloxanthranolic acetate	$C_6H_4.CO.C_6H_4.CPh.OAc$	"	....	194-196	....	A., 202, 61	
Acetoxydiphenyl phthalein....	$AcO.C_6H_4.CPh.C_6H_4.COO$ $= 1. ? ; 1.2$	$C_{22}H_{16}O_4$	....	135-136	Pechmann	B., 13, 1615	40, 96
Acetoxypheyl oxanthranol	$C_6H_4.CO.C_6H_4.C(OH).C_6H_4.OAc$	"	....	207-270 sic	"	B., 13, 1617	40, 97
Ethyl fluorescein	$C_6H_4 : (CO)_2 : (C_6H_3)_2(OH)(OEt) : O$	$C_{22}H_{16}O_6$	....	155-156	Baeyer	A., 183, 15	31, 197
Dinaphthoxyethane	$C_{10}H_7O.(CH_2)_2OC_{10}H_7 = \alpha\alpha$	$C_{22}H_{18}O_2$	....	125-126	Kœlle	B., 13, 1956	40, 178
" " " " " " " " " " " "	" $= \beta\beta$	"	....	217	"	B., 13, 1954	"
Cresol phthalin anhydride	$O : (C_6H_3Me)_2 : CH.C_6H_4.COOH = (1.4. ?)_2 ; 1.2$	$C_{22}H_{18}O_3$	....	210	Drewsen	A., 212, 342	42, 1099
Phenylglycol dibenzoate	$Ph.CH(OBz).CH_2.OBz$	$C_{22}H_{18}O_4$	....	96-97	Wachendorff and Zincké	B., 10, 1006 ; A., 216, 295	32, 614
Acid " " " " " " " " " " " "	$C_6H_4(CHPh.COOH)_2$	"	....	110	Symons and Zincké	B., 6, 1188 ; A., 171, 124	27, 162
Cresol phthalein	$C_6H_4[CO.C_6H_3Me.OH]_2 = 1.2 ; (1.3.4 \text{ or } 1.4.3)_2$	"	....	213-214	Fraude	B., 12, 237 ; A., 202 ; 153	36, 635
Dibenzoxy dimethoxy benzene	$C_6H_2(OMe)_2(OBz)_2$	$C_{22}H_{18}O_6$	....	245	Hofmann	B., 11, 333	34, 418
α-naphthyl orthoxalate	$C_{10}H_7O.C(OH)_2.C(OH)_2.OC_{10}H_7 = \alpha\alpha$	"	....	163 s. d.	Staub and Smith	....	45, 304
β- " " " " " " " " " " " "	" $= \beta\beta$	"	....	167 s. d.	"	....	"
Diacetpolyporic acid....	....	"	....	205	....	A., 187, 194	"
Cotoin	$v. C_{21}H_{20}O_6$	"	....	130	Jobst and Hesse	A., 199, 23	38, 326
Triacetylresacetin ....	....	$C_{22}H_{18}O_7$	....	229	....	J. p. [2], 26, 59	
Benzylicbenzylphenylacetate	$CH_2Ph.CHPh.COOCH_2Ph$	$C_{22}H_{20}O_2$	320 (60)	....	Hodgkinson	....	37, 486
" " " " " " " " " " " "	....	"	335 (50)	Liquid	"	....	37, 484
Phenyl ditolylacetic acid	$(C_6H_4Me)_2.CPh.COOH = (1.4)_2$	"	....	78-83	Thörner	A., 189, 124	34, 69
Dibenzhydryl benzene acetate	$Ph.CH(OAc).C_6H_4.CHI(OH)Ph$	$C_{22}H_{20}O_3$	....	94-97	Wehnen	B., 9, 311	29, 916

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
o-Cresolphthalin ....	....	$C_{22}H_{20}O_4$	....	217-218	....	A., 202, 168	
Hydrocotoïn	v. $C_{15}H_{14}O_4$	$C_{22}H_{20}O_6$	....	98 u. c.	Jobst and Hesse	B., 10, 252	32, 202
Benzopicrotin....	$C_{15}H_{15}O_6.OBz$	$C_{22}H_{20}O_8$	....	245	Schmidt	A., 222, 313	46, 846
From dioxyretistene....	....	$C_{22}H_{22}O$	....	89-90	Ekstrand	A., 185, 103	32, 499
Ethylic polyporate ....	....	$C_{22}H_{22}O_4$	....	134	....	A., 187, 193	
Diacetpyrogujacol	$AcO.C_{12}H_{10}.O.C_6H_5.OAc$	$C_{22}H_{22}O_5$	....	122	Wieser	W. A. [1881], 464	40, 813
Diethylic dibenzoylsuccinate	$COOEt.CHBz.CHBz.COOEt$	$C_{22}H_{22}O_6$	....	125-126	Baeyer and Perkin	B., 17, 61	46, 838
„ „ dextrotartarate	$COOEt.(CHOBz)_2.COOEt$	$C_{22}H_{22}O_8$	d.	Liquid	Anschütz	B., 14, 2790	42, 831
„ „ „	„	„	d.	l. -17	Pictet	B., 15, 2243	
Benzoyl picrotoide hydrate	$C_{15}H_{17}O_6.OBz$	„	....	abt. 230	Paternò & Ogliaro	G. I., 9, 57	36, 729
From Bath-a-barra wood	$(C_{23}H_{23}O_5)_n$	$(C_{22}H_{23}O_4)_n$	....	135	Sadtler & Rowland	A. C. J., 3, 22	40, 1042
Benzoyl hydrosantonide ....	....	$C_{22}H_{24}O_4$	....	157	Cannizzaro	G. I., 6, 341	31, 471
Ethylic α -isatropate ....	....	„	....	180-181	Fittig	A., 206, 37	40, 426
Tetraethylrifugalic acid	$C_{14}H_4Et_4O_8$	$C_{22}H_{24}O_8$	....	180 +	Klobukowsky	B., 10, 885	32, 619
Primula camphor ....	....	$C_{22}H_{24}O_{10}$	a. 200	49	Mutschler	A., 185, 214	32, 904
Diisobutylcarbобензоніс acid	....	$C_{22}H_{26}O_2$	....	148	Zagoumeny	A., 184, 169	32, 195
Dithymyl quinonethylene	$CH_2:C(C_{10}H_{12}O)_2:$	„	....	215	Jäger	B., 7, 1199	31, 263
Cuminol acetate	$C_9H_{11}.CH(OAc).CO.C_9H_{11}$	$C_{22}H_{26}O_3$	....	75	Widman	B., 14, 610	40, 59
Benzylіc santonate ....	....	$C_{22}H_{26}O_4$	....	84.3 c.	Panebiancho	B., 11, 2032	
Dieugenoxylethylene....	$[CH_2.O.C_6H_3(OMe)(C_3H_5)]_2$	„	....	89	Cahours	C. R., 84, 151	31, 462
Limonin	v. $C_{22}H_{50}O_{13}$	$C_{22}H_{26}O_7$	$C_{26}H_{30}O_6$	275	Paternò & Ogliaro	B., 12, 865	
Hesperidin (hesperetin gluco- side)	$C_{10}H_{14}O_6 + C_6H_{12}O_6$	$C_{22}H_{26}O_{12}$	....	243-245	Paternò and Briosi	B., 9, 250	29, 709
„ „ „	„	„	....	abt. 245	Hoffmann	B., 9, 690	32, 548
„ „ „	„	„	....	245	E. Hoffmann	A. P. [3], 14, 139	36, 468
„ „ „	„	„	....	251	Tiemann and Will	B., 14, 946	40, 739
Tetracetsaccharovanillic acid	$C_{14}H_{14}(OAc)_4.O_6$	$C_{22}H_{26}O_{13}$	....	181-182	Tiemann and Nagai	B., 8, 1141	29, 78
Dithymol-ethylidene	$CH_2:C(C_{10}H_{12}OH)_2$	$C_{22}H_{28}O_2$	....	170-171	Jäger	B., 7, 1198	31, 263
From campho-carboxylic acid	....	$C_{22}H_{28}O_4$	....	195-196	Kachler and Spitzer	C. C. [1881], 359	42, 66
Dicymoxyethane	$(CH_2)_2(O.C_6H_3MePr)_2$	$C_{22}H_{30}O_2$	....	Liquid	Paternò	G. I. [1875], 13	28, 638
„ „ „	„	„	....	99	„	„	„
Dithymolethane	$CH_3.CH(C_6H_3MePrOH)_2$	„	....	180	Jäger	B., 7, 1197	31, 262
„ „ „	„	„	....	185	Steiner	B., 11, 287	34, 507
Camphocarboxylic anhydride	$(C_{11}H_{15}O_2)_2O$	$C_{22}H_{30}O_6$	....	265 d.	Kachler and Spitzer	C. C. [1881], 359	42, 66
?	....	$C_{22}H_{32}O$	262-263	....	Flückiger	B., 9, 471	
Anacardic acid	v. $C_{44}H_{64}O_7$	$C_{22}H_{32}O_3$	....	26	Städeler	A., 63, 141	
Ethylic cholante	$C_{20}H_{27}EtO_6$	$C_{22}H_{32}O_6$	....	50-60	Latschinoff	B., 13, 1055	38, 723
Camphocarboxylic acid ....	....	„	....	123-124	Kachler and Spitzer	C. C. [1881], 359	42, 66
Acetylcaryophyllin	$C_{20}H_{31}O(OAc)$	$C_{22}H_{34}O_3$	$C_{24}H_{36}O_4$?	184	Hjelt	B., 13, 800	38, 670
Metacopaivic acid	$C_{20}H_{32}(COOH)_2$	$C_{22}H_{34}O_4$	....	205-206	Strauss	A., 148, 153	vi., 490
Gurjunic acid	$C_{20}H_{32}(COOH)_2$	„	260	220	Werner	Z. C. [1862], 588	v., 1046
Paradigitaletin ....	....	$C_{22}H_{34}O_7$	....	n. f. 100	Walz	N. J. P., 9, 302	ii., 330
Hexethylic butonhexa- carboxylate	$[C(COOEt)_2.CH_2.COOEt]_2$	$C_{22}H_{34}O_{12}$	....	56	Bischoff	B., 16, 1046	44, 912
Masopin ....	....	$C_{22}H_{36}O$	....	155	....	A., 46, 124	
From chlorethylic ethyloide	....	„	a. 300	....	Lieben	A., 178, 1	29, 59
Acetylquebrachol ....	....	$C_{22}H_{36}O_2$	....	115 u. c.	....	A., 211, 274	
Menyanthin	$C_{30}H_{46}O_{14}$?	$C_{22}H_{36}O_{11}$	....	60-115	....	....	iii., 881
Ethylic divalerylene-divale- rate	....	$C_{22}H_{38}O_3$	250-280	....	Greiner	J., 1865 or 1866	vi., 601
From benolic tetrabromide ....	....	$C_{22}H_{40}O_2$	....	33	Haussknecht	A., 143, 40	vi., 257
Benolic acid	$C_{21}H_{39}.COOH$	„	....	57.5	„	A., 143, 42	„
Dihydroxybenolic acid	$C_{21}H_{39}O_2.COOH$	$C_{22}H_{40}O_4$	....	90-91	„	A., 143, 46	„
From isobutaldehyde acetate	$C_{20}H_{37}O_3(OAc)$	$C_{22}H_{40}O_5$	240-242	Liquid	Perkin	....	43, 97
Erucic acid	$C_{21}H_{41}.COOH$	$C_{22}H_{42}O_2$	....	32-33	Websky	J. p., 58, 453	
„ „ „	„	„	....	34	Fitz	B., 4, 442	
„ „ „	„	„	....	34	Darby	A., 69, 4	ii., 501
Brassicic acid ....	„	„	....	56	Fitz	B., 4, 444	vii., 470
„ „ „	„	„	....	59-60	Websky	J. p., 58, 461	v., 1091; 24, 703
„ „ „	„	„	....	70	Haussknecht	A., 143, 54	vi., 366
Ethylic dioctylacetoacetate	$C(C_8H_{17})_2Ac.COOEt$	$C_{22}H_{42}O_3$	340-342 u. c.	Liquid	Guthzeit	A., 204, 9	38, 872

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Acetoarachidic anhydride ....	....	$C_{22}H_{42}O_3$	....	60	Tassinari	G. I., 8, 305; B., 11, 2031	38, 307
Acid from cholic acid ....	....	"	....	67	Tappeiner	Z. B., 12, 60	31, 213
Cetylid ....	....	$C_{22}H_{42}O_5$	....	62-65	....	Z. P. C., 3, 334	
Pentadecylhexylketone	$Me(CH_2)_{14}CO(CH_2)_5Me$	$C_{22}H_{44}O$	231 (10)	....	Krafft	B., 15, 1718	
Ethyl arachidate	$C_{19}H_{39}COOEt$	$C_{22}H_{44}O_2$	....	50	....	A., 97, 261; 101, 97	
" " ....	"	"	....	52.5	Gössmann	A., 89, 1	i., 353
Benostearic acid ....	....	"	....	76	Völcker	J., 1, 569	i., 538
Behenic acid	$C_{21}H_{43}COOH$	"	....	78	....	A., 64, 343	
Isodihydroxybehenic acid	$C_{21}H_{41}(OH)_2COOH$	$C_{22}H_{44}O_4$	....	127	Hausknecht	A., 143, 53	
Limonin	$v. C_{22}H_{26}O_7$	$C_{22}H_{60}O_{13}$	....	124	....	....	iii., 699
Benzoxyquinone of $C_{16}H_{12}$	$C_{16}H_9 : O_2, OBz$	$C_{23}H_{14}O_4$	....	120-121	Breuer and Zincké	B., 11, 1996	38, 327
Acetyldihydroxybenzoylhydroxybenzoic acid	$C_6H_4.O.CO.C_6H_4.OAc$ = (1.4) ₃ $COOC_6H_4.COOH$	$C_{23}H_{16}O_8$	....	185	Klepl	J. p., 28, 193	46, 448
Acetoxyhydroxybenzoic anhydride	$AcO.C_6H_4.COO.CO.C_6H_4.OH$ = (1.4) ₂	"	....	230	"	J. p. [2], 25, 526	42, 1294
Ethyl β -dibenzoylbenzoate	$(C_6H_5.CO)_2.C_6H_3.COOEt$	$C_{23}H_{18}O_4$	....	106.5-107	Weber and Zincké	B., 7, 1155	28, 156
Dibenzoylmesitylene	$Me_3.Bz_2 = 1.3.5.4.6$	$C_{23}H_{20}O_2$	....	117	Louise	C. R., 98, 151	46, 904
Dihydroxytriphenylcarbinol diacetate	From $(HO.C_6H_4)_2.CPh(OH)$	$C_{23}H_{20}O_5$	....	119	Dœbner	B., 12, 1465	38, 240
Aurin + acetic anhydride	$(HO.C_6H_4)_2.C_6H_4.O + Ac_2O$	$C_{23}H_{20}O_6$	....	159-160	Caro and Græbe	B., 11, 1122	34, 795
" " " ....	"	"	....	151	" "	B., 11, 1349	
" " " ....	"	"	....	168	Dale & Schorlemmer	....	35, 154
Xanthorhamnin	$C_{23}H_{28}O_{14} ?$	$C_{23}H_{24}O_{14}$	....	b. 100 (?)	Kane	P. M. [3], 23, 3	v., 1053
Aurantiin (Hesperidin) ....	....	$C_{23}H_{26}O_{12}$	....	171	E. Hoffmann	B., 9, 691	30, 421
Naringin ....	....	"	....	171	"	A. P. [3], 14, 139	36, 468
" + 4H ₂ O ....	....	"	....	100	"	"	"
Dieugenoxopropane	$(C_6H_5.OMe.C_3H_5.O)_2.C_3H_6$	$C_{23}H_{28}O_4$	....	56-58	Cahours	C. R., 84, 1195	32, 479
"	$(C_6H_5.OMe.C_3H_5.O)_2(CH_2)_3$	"	....	82.5	"	"	"
Xanthorhamnin	$C_{23}H_{24}O_{14} ?$	$C_{23}H_{28}O_{14}$	....	b. 100 (?)	Kane	P. M. [3], 23, 3	v., 1053
Ethyl octoethenylisopropylacetic acid	$C_{18}H_{22}.CPr^i.COOH$	$C_{23}H_{30}O_2$	a. 360	....	Geuther, Fröhlich, and Looss	A., 202, 325	38, 623
Gardenin	$v. C_6H_5O_2$	$C_{23}H_{30}O_{10}$	....	155	Flückiger	P. J. T. [3], 7, 589	32, 501
From dikamali resin ....	....	$C_{23}H_{34}O_4 (?)$	....	b. 100	"	"	"
Cetylbenzoate ...	$C_6H_5.COOC_6H_{13}$	$C_{23}H_{38}O_2$	....	30	Becker	A., 108, 219	
? ketone ....	....	$C_{23}H_{42}O$	200-210	....	Geuther, Fröhlich, and Looss	A., 202, 328	38, 623
Diethyl diocylmalonate	$C(C_8H_{17})_2(COOEt)_2$	$C_{23}H_{44}O_4$	338	Liquid	Conrad and Bischoff	B., 13, 597	38, 628
" " "	"	"	338-340	....	Conrad	A., 204, 163	
" cetylmalonate	$CH(C_{16}H_{33})(COOEt)_2$	"	300-360	....	"	A., 206, 357	
Laurone	$(C_{11}H_{23})_2CO$	$C_{23}H_{46}O$	....	69	Krafft	B., 15, 1712	42, 1272
" ....	"	"	....	66	Overbeck	A., 84, 289	iii., 476
Isoamyl stearate	$C_{17}H_{35}.COO(C_5H_{11})$	$C_{23}H_{46}O_2$	....	25	Hanhart	C. R., 47, 230	v., 420
" " " ....	"	"	....	25.5	Duffy	A., 88, 293	5, 197
Alcohol from cantiba wax ....	....	$C_{24}H_{48}O$	....	78	Maskelyne	22, 87	vi., 391
Benzeneresorcinphthalin diacetate	$(AcO)_2C_6H_3.CPh.C_6H_4.COO$	$C_{24}H_{38}O_6$	....	137	Pechmann	B., 14, 1860	
Dibenzoxynaphthalene	$C_{10}H_6(OBz)_2$	$C_{24}H_{16}O_4$	....	138-139	Weber	B., 14, 2209	42, 205
Diacetyl fluorescein	$C_6H_4 : [CO.C_6H_3(OAc)]_2 : O$	$C_{24}H_{16}O_7$	....	200	E. Fischer	B., 7, 1211	28, 159
" " " ....	"	"	....	200	Baeyer	A., 183, 13	31, 197
" quinolphthalin	$C_6H_4(CO.C_6H_3.OAc)_2O$	"	....	210 u. c.	Ekstrand	B., 11, 715	34, 675
Quercetin ...	....	$C_{24}H_{16}O_{11}$	....	a. 251	....	....	v., 4
From β -naphthol aldehyde	$C_{22}H_{12}.OH.OEt$	$C_{24}H_{18}O_2$	....	144	Rousseau	A. C. [5], 28, 145; C. R., 95, 232	46, 181; 42, 1300
Diacetpsudorosolic acid	$C_{20}H_{12}O_3(OAc)_2$	$C_{24}H_{18}O_5$	....	100	Zulkowsky	B., 11, 1429	34, 873
Phenolphthalidein diacetate	$C_6H_4 \begin{matrix} \diagup CO.C_6H_4.OAc \\ | \\ \diagdown CO.C_6H_4.OAc \end{matrix}$	$C_{24}H_{18}O_6$	....	109	Baeyer	A., 202, 105; B., 9, 1236	31, 309
Phenylresorcinphthalin diacetate	$C_6H_3(OAc)_2.CPh.C_6H_4.COO$ = 1.3.?; 1.2	"	....	137	Pechmann	B., 14, 1861	42, 184

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Phenolphthalein diacetate	$C_6H_4(CO.C_6H_4.OAc)_2$	$C_{24}H_{18}O_6$	....	143	Baeyer	B., 9, 1232; A., 202, 74	31, 308
Dibenzoresorcinol diacetate....	$C_6H_2(O\bar{A}c)_2.Bz_2=1.3.??$	"	....	150	Döbner and Stackmann	B., 11, 2273	36, 320
" " ....	" "	"	....	150	Döbner	A., 210, 260	42, 508
Quinolphthalin diacetate ....	....	$C_{24}H_{18}O_7$	....	190-191 u.c.	Ekstrand	B., 11, 716	34, 676
Phenyl ethaldehyde ....	....	$C_{24}H_{20}O_2$	....	102	Erlenmeyer	B., 13, 304	38, 472
? ....	....	$C_{24}H_{20}O_3$	....	170	Hodgkinson	....	37, 484
Glyceroltribenzoate (tribenzoic acid)	$BzO.CH(CH_2.OBz)_2$	$C_{24}H_{26}O_6$	....	74	Romburgh	R. T., 1, 46; B., 16, 395	44, 63
Methylic dibenzoylphenylglycerate	$Ph(CH.OBz)_2.COOMe$	"	....	113.5	Anschütz and Kinnicutt	B., 12, 538	36, 645
Diacetoxytriphenylmethane carboxylic acid	$CH(C_6H_4.OAc)_2.C_6H_4.COOH$	"	....	146	Baeyer	A., 202, 83	38, 655
Dibenzoxythymoquinone ...	$C_{10}H_{10}(OBz)_2O_2$	"	....	163	Zincké	B., 14, 95	40, 596
Pentacetdigallic acid ....	....	$C_{24}H_{20}O_{14}$	....	137	....	A., 170, 66	
Dibenzoyldurene	$C_6Me_4Bz_2$	$C_{24}H_{22}O_2$	....	269-270	....	J. [1879], 372	
?	$C_{22}H_{19}O(OAc)$	$C_{24}H_{22}O_3$	....	100	Hodgkinson	....	37, 485
Dibenzylhydrilbenzene diacetate	$C_6H_4(CH.OAc.Ph)_2$	$C_{24}H_{22}O_4$	....	143-144	Wehnen	B., 9, 311	29, 916
Dibenzoxycymene	$C_6H_2MePr(OBz)$	"	....	88	Tuttscheff	J. p., 75, 370; A., 109, 368	ii., 184
Oxypeucedanin ....	....	$C_{24}H_{22}O_7$	....	140	Heut	A., 176, 70	28, 772
Tetracetobrazilin	$C_{16}H_{10}O_2(OAc)_4$	$C_{24}H_{22}O_{10}$	....	149-151	Liebermann and Burg	B., 9, 1886	32, 194
α -Hexacetoxydiphenyl	$C_{12}H_4(OAc)_6$	$C_{24}H_{22}O_{12}$	....	145	Liebermann	A., 169, 242	36, 931
γ- " ....	"	"	....	163-164	Cobenzl	M. C., 1, 673	42, 405
β- " ....	"	"	....	170	Barth and Goldschmidt	B., 12, 1246	36, 931
Benzylbenzoxycymene ...	$C_6H_2MePr^a.CH_2Ph.OBz$	$C_{24}H_{24}O_2$	....	75-80	....	G. I., 11, 433	
Peucedanin	v. $C_{16}H_{16}O_4$	$C_{24}H_{24}O_6$	....	60	Schlatter, Bothe, and Erdmann	B., 7, 567	27, 907
"	v. $C_{12}H_{12}O_3$	"	....	75	Bothe	A., 176, 70	28, 772
" ....	....	"	....	76	Heut	"	"
Ericinone ....	....	$C_{24}H_{24}O_9 (?)$	....	167	Uloth	A., 111, 215	ii., 500
Murrayetin	v. $C_{12}H_{12}O_6$	$C_{24}H_{24}O_{10}$	....	100	Blas	Z. C. [2], 5, 316	vi., 842
Dibenzylthymol	$C_6H.OH.Me.Pr^a.(CH_2Ph)_2$	$C_{24}H_{26}O$	280 (8)	76	Mazzara	G. I., 11, 346	42, 173
From acetyldibenzylthymol	....	"	....	112	"	G. I., 11, 433	"
Otobite ....	....	$C_{24}H_{26}O_5$	....	133	Uricechea	A., 91, 370	iv., 247
Ethylic benzoylsantonite	$C_4H_{18}.OBz.COOEt$	$C_{24}H_{28}O_4$	....	78	Cannizzaro and Carlucci	B., 16, 427; G. I., 12, 393	44, 77
" " isosantonite	"	"	....	91	" "	" "	"
From attor of limes ....	....	$C_{24}H_{28}O_5$	....	162 c.	Piesse and Wright	....	32, 584
Apiin	v. $C_{27}H_{32}O_{16}$	$C_{24}H_{28}O_{13}$	....	180	Braconnet	A. C. [3], 9, 250	i., 350
Hydrocuminoïn diacetate	$[C_6H_4.Pr.CH(OAc)]_2$	$C_{24}H_{30}O_4$	....	143-144	Raab	B., 10, 54	32, 894
Athamantin ....	....	$C_{24}H_{30}O_7$	....	60-80	Schnedermann	A., 51, 315	i., 430
" ....	....	"	....	79	Geyger	A., 110, 359	
Tetracetconiferin	$O.CH_2(C_6H_4.OAc)_4.CO$ $C_6H_3(OMe)C_3H_4.OH$	$C_{24}H_{30}O_{12}$	....	125-126 ; sf. 97	Tiemann and Nagai	B., 8, 1140	29, 78
Tetraethylic mellitate	$C_6(COOEt)_6$	"	....	68-69	....	J. [1862], 281	
" " ....	....	"	....	72.5-73	....	A., 177, 273	
Myroxocarpin ....	....	$C_{24}H_{34}O_3$	....	115	....	A., 77, 306	
Diacetylcopaibic acid	$C_{20}H_{28}O_2.Ac_2$	$C_{24}H_{34}O_4$	....	74-75	Brix	M. C., 2, 537	42, 66
Dyslysin ....	....	$C_{24}H_{36}O_3$	....	a. 140	....	....	ii., 360
Eulysin ....	....	"	....	150	Siewert	Z. C. [2], 4, 383	vi., 497
Diacetylcaryophyllin	$C_{20}H_{30}(OAc)_2$	$C_{24}H_{36}O_4$	$C_{22}H_{34}O_3 ?$	184	Hjelt	B., 13, 800	36, 670
Laserpitin ....	....	$C_{24}H_{36}O_7$	....	114	Feldmann	A., 135, 336	v., 1091
Choloidic acid	cf. J. [1863], 653	$C_{24}H_{38}O_4$	$C_{48}H_{78}O_9 ?$	a. 150	....	....	i., 929
Ivaol	$C_{12}H_{20}O ?$	$C_{24}H_{40}O_2$	170-210	....	Planta-Reichenan	A., 155, 145	vii., 20
Cholic acid ....	....	$C_{24}H_{40}O_5$	....	145-150	Richter	R. K. T., 433	
? ....	....	$C_{24}H_{42}O$	....	110-120	....	A., 180, 8	
Ivain ....	....	$C_{24}H_{42}O_3$	....	1. 17	Planta-Reichenan	A., 155, 150	vii., 20

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
From isobutaldehyde	$C_{20}H_{36}O_2(OAc)_2$	$C_{24}H_{42}O_6$	248-252	Liquid	Perkin	....	43, 98
„ Achillea ageratum	....	$C_{24}H_{44}O_2$	180-182	l. -18	Luca	J. Ph. [4], 23, 105	31, 326
„ isobutaldehyde	....	$C_{24}H_{44}O_4$	250-255	....	Perkin	....	43, 99
Cerosin	....	$C_{24}H_{48}O$	....	82	Lewy	A., 37, 170, 173 ; A. C. [3], 13, 451	i., 836
Heptadecyl hexyl ketone	$Me(CH_2)_{16}CO.(CH_2)_5Me$	„	248 (10)	....	Krafft	B., 15, 1718	
Octylic palmitate	$C_{15}H_{31}COOC_8H_{17}$	$C_{24}H_{48}O_2$	....	8.5	....	J. [1858], 301	
Ethyl benostearate	$C_{21}H_{43}COOEt$	„	....	48-49	Völcker	A., 64, 344	i., 538
Gingkoic acid	....	„	....	35	Schwarzenbach	J. [1857], 529	v., 174
Paraffinic acid	....	„	....	45-47	Pouchet	B. S., 23, 111 ; C. R., 79, 320	28, 50
Lignoceric acid	$C_{23}H_{47}COOH$	„	....	80.5	Hell and Hermann	B., 13, 1713	40, 249
Cerosinic acid	....	„	....	93.5	Lewy	A. C. [3], 13, 451	
? acid	....	„	....	62	Kessel	B., 11, 2115	
Diglycerol monostearate	$C_3H_5(OH)(OEt).O.C_8H_5(OH)_2$	$C_{24}H_{48}O_6$	....	30	Hundeshagen	J. p. [2], 28, 219	48, 282
Dibenzoxymethyl naphthoquinone	$C_{10}H_8Me : O_2(OBz)_2$	$C_{25}H_{16}O_6$	....	285 d.	Thörner	B., 12, 1632	38, 47
Diphenylphenyl ketone	$(C_6H_5.C_6H_4)_2CO$	$C_{25}H_{18}O$	....	226	Weiler	B., 7, 1189	28, 152
Diphenylbenzhydrol	$(C_6H_5.C_6H_4)_2CH.OH$	$C_{25}H_{20}O$	....	151	„	„	„
Triacetylaurin	$Ph.C(OAc) : (C_6H_4.OAc)_2$	$C_{25}H_{22}O_6$	....	138-139 u.c.	Caro and Graebe	B., 11, 1117	34, 794
Ethyl dibenzoylphenyl glycerate	$Ph.CH(OBz).CH(OBz).COOEt$	„	....	109	Anschütz and Kinnicutt	B., 11, 1221	34, 981
„	„	„	....	109	„	B., 12, 539	38, 645
Triacetoxypentamethylene	$CH(C_6H_4.OAc)_3$	„	....	180	Hemilian	B., 7, 1205	28, 152
Resocyanin diacetate	$C_{21}H_{16}O_4(OAc)_2$	$C_{25}H_{22}O_8$	....	150	....	J. p. [2], 24, 127	
Benzylchloride on phenyl acetate	....	$C_{25}H_{24}O_3$	255 (i.v.) ; 310-320 (760)	Liquid	Perkin & Hodgkinson	....	37, 722
„	....	„	318-322 (760)	Liquid	„	....	37, 725
Di-β-naphthyl diethyl orthocarbonate	$(C_{10}H_7O)_2C(OEt)_2$	$C_{25}H_{24}O_4$	298-301	....	Bender	B., 13, 701	40, 48
Diacetyl catechin	$C_{21}H_{18}Ac_2O_9$	$C_{25}H_{24}O_{11}$	....	129-131	Liebermann and Taichert	B., 13, 695	40, 53
Eupitonic acid	....	$C_{25}H_{26}O_9$	....	200 p.d.	Hofmann	B., 11, 1457	34, 871
Dibenzyl methoxycymene	$C_6HMe.Pr.OMe.(CH_2Ph)_2$	$C_{25}H_{28}O$	....	crystalline	Mazzara	G. I., 11, 433	42, 173
Rutin	....	$C_{25}H_{28}O_{15}$	....	a. 190	Richter	R. K. T., 436	
Picrotin	....	$C_{25}H_{30}O_{12}$	....	240-245	Schmidt and Löwenhardt	B., 14, 818	
„	<i>cf.</i> $C_{21}H_{24}O_{10}$	„	....	245 ; 250-251	Barth and Kretschy	W.A., 81, 7 ; B., 13, 1243	40, 286
Robinin	....	$C_{25}H_{30}O_{16}$	....	195	Zwenger & Dronke	As., 1, 257	v., 112
Sylvinolic acid	....	$C_{25}H_{36}O_4$	....	130 d.	Maly	W.A.B. [2], 44, 121	v., 650
Benzostearic anhydride	$C_{19}H_{35}O.O.Bz$	$C_{25}H_{40}O_3$	....	70	Chiozza & Malerba	A., 91, 104	i., 558
„	„	„	....	100	Chiozza	....	v., 420
Cholestenic acid	....	$C_{25}H_{40}O_4$	....	60-70	....	J. R., 9, 82	
Oxycholestenic acid	....	$C_{25}H_{40}O_5$	....	80-100	....	„
Amyrin	$C_{20}H_{34}O ?$	$C_{25}H_{42}O$	....	177	Buri	N. R. P., 25, 193	30, 423
Ledum camphor	$v. C_5H_8O_2$	$C_{25}H_{44}O_2$	....	101	Hjelt and Colland	B., 15, 2501	44, 346
Ambrain	....	$C_{25}H_{48}O$	....	36	....	A., 6, 25	
Valero-arachidic anhydride	$C_{19}H_{39}CO.O.CO.C_4H_9$	$C_{25}H_{48}O_3$	....	68	Tassinari	G. I., 8, 305 ; B., 11, 2031	36, 307
Isoamylic arachidate	$C_{19}H_{39}COOC_5H_{11}$	$C_{25}H_{50}O_2$	....	44.8-45	Caldwell	J., 9, 492 ; A., 101, 93	
Methylic lignocerate	$C_{23}H_{47}COOMe$	„	....	56.5-57	Hesse & Hermann	B., 13, 1717	40, 250
Hyonic acid	$C_{24}H_{49}COOH$	„	....	77-78	Carins	A., 139, 168	vi., 701
„	(or else cerotic acid)	„	$C_{27}H_{54}O_2$	76-79	Schulze and Allrich	J. p. [2], 9, 321	27, 1080
Fluorenic oxide	$(C_6H_4.C_6H_4CH)_2O$	$C_{26}H_{18}O$	....	abt. 290	Barbier	A. C. [5], 7, 507 ; C. R., 80, 1396	31, 73 ; 20, 78
Dibenzoyl-diphenyl	$C_{12}H_8.Bz_2$	$C_{26}H_{18}O_2$	....	218	Wolf	B., 14, 2031	42, 62
From oxydiphenyl ketone	....	$C_{26}H_{18}O_3$	....	199	Richter	J. p. [2], 23, 350	42, 618
?	$C_{22}H_{12}(OAc)_2$	$C_{26}H_{18}O_4$	....	192	....	C. R., 94, 133	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Rhamnetin dibenzoate	$C_{12}H_8O_3(OBz)_2$	$C_{26}H_{18}O_7$	....	210-212	Liebermann and Hörmann	A., 196, 321 ; B., 11, 1620	36, 272
Bye product of α -benzopinacol	$CHPh_2.O.CHPh_2$	$C_{26}H_{20}O$	....	107-108	Thörner and Zincké	B., 11, 1399	34, 874
α -Benzopinacolin ....	....	"	....	158-159	" "	B., 11, 66, 68	34, 425
β - " " " " " " " "	$CPh_3.CO.Ph$	"	....	178-179	" "	"	"
β- " " " " " " " "	"	"	....	178-179	" "	B., 10, 1475	34, 223
α- " " " " " " " "	"	"	....	204-204.5	" "	B., 11, 1396	34, 874
Tetraphenylethylene oxide....	$CPh_2.CPh_2.O$	"	....	193-194	Behr	B., 5, 278	25, 472; vii., 1150
Tetroxytetraphenylethylene	$(HO.C_6H_4)_2.C:C.(C_6H_4.OH)_2$	$C_{26}H_{20}O_4$	....	a. 300	"	"	" "
Benzaldehyde on resorcinol....	$C_{26}H_{16}(OH)_4$	"	....	330 d.	Michael	A. C. J., 5, 339	46, 597
Orcinphthalin diacetate ....	....	$C_{26}H_{20}O_7$	....	219-220	Baeyer	A., 183, 66	31, 205
" " " " " " " "	....	"	....	219-220 u. c.	E. Fischer	B., 7, 1211	28, 160
Cresorcinphthalin diacetate	....	"	....	260 d.	Knecht	B., 15, 1069 ; A., 215, 96	
Phenylpyrogallolphthalin-triacetate	$(AcO)_3.C_6H_2.CPh.C_6H_4.COO$	$C_{26}H_{20}O_8$	....	231	Pechmann	B., 14, 1864	
Di-benzhydrol oxide	$(CHPh_2)_2.O$	$C_{26}H_{22}O$	....	110	Friedel and Balsohn	B. S. [2], 33, 341	38, 559
" " " " " " " "	"	"	315 (745)	111	Linnemann	A., 133, 14	iv., 478
" " " " " " " "	"	"	....	118	"	A., 133, 17	38, 559
Isobenzopinacone ....	....	$C_{26}H_{22}O_2$	297.5 (733)	b.-15	"	A., 133, 27	iv., 649
" " " " " " " "	....	"	....	31	"	"	"
Benzpinacone ....	....	"	....	168	Zœgoumenny	B. S. [2], 35, 560	40, 813
" " " " " " " "	....	"	....	170-180	Linnemann	A., 133, 27	iv., 648
" " " " " " " "	....	"	....	185-186	Thörner and Zincké	B. S. [2] 35, 560	40, 813
" " " " " " " "	$CPh_2(OH).CPh_2(OH)$	"	....	185-186	" "	B., 10, 1473	34, 223
Tetrahydroxytetraphenylethane	$C_{26}H_{20}(OH)_4$	$C_{26}H_{22}O_4$	....	248	Engler	B., 11, 930	36, 69
Cresolphthalin diacetate	$C_6H_4(CO.C_6H_3Me.OAc)_2$ = 1.2 ; (1.3.4 or 1.4.3) ₂	$C_{26}H_{22}O_6$	....	73-74	....	A., 202, 156	
" " " " " " " "	"	"	....	73-75	Fraude	B., 12, 238	36, 635
Orcinphthalin diacetate ...	$C_6H_4 : [O : (CH.C_6H_2Me.OAc)_2] : O$	"	....	211	Baeyer	A., 183, 73	31, 206
" " " " " " " "	"	"	....	211	E. Fischer	B., 7, 1215	28, 160
Phenolphthalol triacetate	$(AcO.C_6H_4)_2.CH.C_6H_4.CH_2.OAc$	$C_{26}H_{24}O_6$	....	40	Baeyer	A., 202, 90	38, 656
Cresolphthalin diacetate ....	....	"	....	138-140	....	A., 202, 169	
Diphenolcresolmethane triacetate	$(AcO.C_6H_4)_2.CH.C_6H_3Me.OAc$	"	....	148-149	Caro and Græbe	B., 11, 1116 ; A., 179, 199	34, 794
Hæmatoxylin pentacetate	$C_{16}H_9O(OAc)_5$	$C_{26}H_{24}O_{11}$	....	165-166	....	A., 216, 234	
Baphinitone ....	....	$C_{26}H_{26}O_6$	....	abt. 88	Anderson	J. [1876], 896	30, 585
Dibenzylacetoxycymene	$C_6H.OAc.Me.C_3H_7.(CH_2.Ph)_2$	$C_{26}H_{28}O_2$	....	82-85	Mazzara	G. I., 11, 346	42, 173
Rosolic acid	$C_{20}H_{16}O_3 ?$	$C_{26}H_{28}O_{10}$	....	156	Fresenius	J. p. [2], 5, 184	vii., 1061
" " " " " " " "	$C_{20}H_{18}O_4 ?$	"	....	abt. 158	Caro and Wanklyn	....	vii., 391
Diisobutyl dibenzoyl dextrotartrate	$COOC_4H_9.(CH.OBz)_2.COOC_4H_9$	$C_{26}H_{30}O_8$	d.	Liquid	Anschütz	B., 14, 2790	42, 831
" " " " " " " "	"	"	d.	l.-17	Pictet	B., 15, 2243	
Limonin	v. $C_{22}H_{26}O_7$	"	$C_{22}H_{30}O_{13}$	244	....	....	36, 730
" " " " " " " "	....	"	....	245	E. Hoffmann	A. P. [3], 14, 139	36, 468
" " " " " " " "	....	"	....	275	Paternò & Ogliaro	G. I., 9, 64	36, 730
Action of acetochlorhydrone on sodium salicylate	....	$C_{26}H_{30}O_{15}$	....	184-185	Michael	B., 15, 1922 ; A. C. J., 5, 171	44, 77 ; 46, 439
Hexethylrufigallic acid	$(EtO)_3.C_6H:(CO)_2:C_6H(OEt)_3$	$C_{26}H_{32}O_8$	....	140+	Klobukowsky	B., 10, 886	32, 619
Diacetoxycycmylethane ?	$(CH_2.C_6H_2MePr^a.OAc)_2$	$C_{26}H_{34}O_4$	....	100	Steiner	B., 11, 288	34, 507
Diethoxycycmylethane	....	$C_{26}H_{36}O_3$	217	Liquid	....	J. p. [2], 4, 448	
Chinochromin	$(CH_2.C_6H_2MePr^a.OEt)_2$	$C_{26}H_{38}O_2$	....	72	Steiner	B., 11, 288	34, 508
Pseudocorallin ....	....	" (?)	....	252	Liebermann and Giesel	B., 16, 938	
Pseudocorallin ....	....	$C_{26}H_{38}O_{10}$	....	abt 158	Caro and Wanklyn	J. p. [2], 5, 184	25, 706

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Cholesterin	Anhydrous	$C_{26}H_{44}O$	....	147	Wislicenus and Moldenhauer	G. J. C., 1868	
" ....	"	"	....	145-146	Gobley and Hesse	A., 192, 175	34, 850
"	$C_{26}H_{44}O + H_2O$	"	....	136	Zwenger	G. J. C., 1849	
" ....	"	"	....	137	Heintz	G. J. C., 1850	
" ....	"	"	....	136-137	Beneke	G. J. C., 1862	
" ....	"	"	....	137	Hartmann	I. D. Gött., 1868	vii., 328
" ....	"	"	....	144.5	Schultz	Z. C. [2], 6, 453	vii., 329
" ....	"	"	....	169-170	Hein	J., 1, 920	
Isocholesterin ....	"	"	....	137-138	Schulze	J. p. [2], 7, 172	26, 1219
" ....	"	"	....	137-138	"	B., 6, 252	26, 920
" ....	"	"	....	138	Schulze and Allrich	J. p. [2], 9, 321	27, 1079
Paracholesterin ....	"	"	....	134-134.5	Reinke & Rodewald	A., 207, 229	42, 303
Phytosterin + H_2O ....	"	"	....	132-133	Hesse	A., 192, 175	34, 850
Caulosterin ....	"	(?)	....	158-159	....	J. p. [2], 25, 166	
Brean ....	"	"	....	157	Gmelin	Gm., 7, 1825	30, 425
" ....	"	"	....	157	Scribe	A. C. [3], 13, 166	iii., 241
Oil of Achillea Ageratum	"	$C_{26}H_{44}O_3$	180-182	....	de Luca	A. C. [5], 4, 132	28, 773
Kussin	"	$C_{26}H_{44}O_5$	....	100	Pavesi	J. [1859], 585	vi., 367
" ....	"	"	....	193-195	Bedall	C. C. [1863], 124	"
Ethyllic cholate	$C_{24}H_{39}EtO_6$	"	....	147	Tappeiner	B., 6, 1286	
From ivy	"	$C_{26}H_{44}O_6$	....	278-280	Vernet	C. R., 92, 360	40, 440
Convolvulinol....	"	$C_{26}H_{50}O_7$	....	38.5-39	....	A., 51, 98; 95, 164	
Octylic stearate	$C_{17}H_{35} \cdot COOC_8H_{17}$	$C_{26}H_{62}O_2$	....	— 4.5	Hanhart	C. R., 47, 230	v., 420
Ethyllic lignocerate	$C_{23}H_{47} \cdot COOEt$	"	305-310	55	Hell and Hermann	B., 13, 1715	40, 250
o-Tribenzoylen benzene	$C_6^{vi}(C_6H_4CO)_3^{ii}$	$C_{27}H_{12}O_3$	....	a. 300	Gabriel and Michael	B., 10, 1557	
" " ....	"	"	....	a. 447	" "	B., 11, 1067	
Dibenzexanthone	$C_{13}H_6Bz_2O_4$	$C_{27}H_{16}O_6$	....	214	Græbe and Ebrard	B., 15, 1678	42, 1301
β -dinaphthol monobenzoate	$HO \cdot C_{10}H_6 \cdot C_{10}H_6 \cdot OBz$	$C_{27}H_{18}O_3$	....	204	Dianin	B., 7, 125	vii., 842
β -dibenzoxylbenzophenone	$CO(C_6H_4 \cdot OBz)_2 = 1.?$; 1.4	$C_{27}H_{18}O_5$	....	101-102	Stædel	A., 218, 339	44, 990
β- " " ....	"	"	....	101-102	Stædel and Saur	B., 13, 836	38, 646
α - " "	" = (1.4) ₂	"	....	181-182	Stædel	A., 218, 339	44, 990
α- " " ....	" "	"	....	181-182	Gail	B., 11, 746 ; A., 194, 335	34, 672 ; 36, 326
" "	$Ph.CO.C_6H_3(OBz)_2 = 1.1.2$	"	....	95	....	A., 210, 262	
" "	" = 1.1.3	"	....	141	Doebner and Stackmann	B., 11, 2271	36, 320
" " ....	" "	"	....	141	....	A., 210, 258	
Phenyltribenzoic acid	$C_6H_5(C_6H_4COOH)_3$	$C_{27}H_{18}O_6$	....	259-261	Gabriel and Michael	B., 11, 1008	34, 734
Dibenzoyldiphenylmethane	$CH_2(C_6H_4 \cdot OBz)_2 = 1.4$; 1.?	$C_{27}H_{20}O_4$	....	156	Beck	A., 194, 325	36, 325
Benzoylhydrosantonide	"	$C_{27}H_{24}O_4$	....	156.5-157	....	J. [1876], 620	
Erythrocentaurin	"	$C_{27}H_{24}O_8$	....	136	Mehu	J. P. [4], 3, 265	vi., 584
Usnic acid	"	$C_{27}H_{24}O_{10}$	....	213.5	Stenhouse & Groves	G. I. [1882], 23	39, 236
Picrotoxin	"	$C_{27}H_{28}O_{11}$	....	a. 310	Paternò & Ogliarolo	G. I., 6, 531	31, 720
Dimethyl eupitonate	"	$C_{27}H_{30}O_9$	....	242	Hofmann	B., 12, 2219	38, 165
Fraxin....	v. $C_{16}H_{18}O_{10}$	$C_{27}H_{30}O_{17}$	$C_{21}H_{22}O_{13}$	320	Rochleder	P. A., 107, 331	ii., 709
Mesitylene quinhydrone	"	$C_{27}H_{32}O_6$ (?)	....	142-143	Fittig	B., 6, 1400	27, 263
Apiin	v. $C_{24}H_{28}O_{13}$	$C_{27}H_{32}O_{16}$	....	180	Planta and Wallace	A., 74, 262	
" " ....	"	"	....	228 u.c.	Gerichten	B., 9, 1124	
Phillyrin	"	$C_{27}H_{34}O_{11}$	....	160	....	A., 92, 109; 108, 124	iv., 487
Acetyl amylin	"	$C_{27}H_{44}O_2$	....	198	Buri	N. R. P., 25, 193	30, 423
? ketone	"	$C_{27}H_{46}O$	240-260	....	Geuther and Loos	A., 202, 329	38, 623
Cinchocerotin....	"	$C_{27}H_{48}O_2$	....	130	Helms	A. P. [3], 21, 279	46, 332
Glycerillaurate (laurostearin) ?	$C_{27}H_{62}O_5$?	$C_{27}H_{60}O_4$	....	abt. 44	....	....	iii., 475
" " ....	"	"	....	44-45	Marsson	A., 41, 329	
Myristone	$(C_{13}H_{27})_2CO$	$C_{27}H_{54}O$	....	76.3	Kraft	B., 15, 1713	42, 1272
" " ....	"	"	....	75	Overbeck	P. A., 86, 591	iii., 1073
Cerotic acid	$C_{26}H_{53}COOH$	$C_{27}H_{54}O_2$	....	78	....	....	i., 837
" " " " ....	"	"	....	78-79	Brodie	A., 67, 180	
" " " " ....	"	"	....	81-82	Maskelyne	J., 5, 525	
" " " " ....	"	"	....	78	Gill and Meusel	21, 466	vi., 421

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Cerotic acid	$\text{C}_{26}\text{H}_{52}.\text{COOH}$	$\text{C}_{27}\text{H}_{54}\text{O}_2$	....	76-79	Schulze and Albrich	J. p. [2], 9, 321	27, 1080
Beech wax ....	....	"	....	81-82	Flückiger	A. P. [3], 7, 8	29, 616
Isoceryl alcohol	$\text{C}_{27}\text{H}_{55}.\text{OH}$	$\text{C}_{27}\text{H}_{56}\text{O}$	....	62	Kessel	B., 11, 2113	36, 261
Ceryl alcohol (?) ....	"	"	....	80	Pieverling	A., 183, 344	31, 587
" " ....	"	"	....	79	Brodie	A., 67, 201	i., 838
Dibenzanthraflavic acid	$\text{C}_{14}\text{H}_6\text{O}_2(\text{OBz})_2$	$\text{C}_{28}\text{H}_{16}\text{O}_6$	....	275	Perkin	26, 22	vii., 88
Dibenzylavopurpurin ...	$\text{C}_{14}\text{H}_6\text{O}_3(\text{OBz})_2$	$\text{C}_{28}\text{H}_{16}\text{O}_7$	....	208-210	Schunck & Roemer	B., 10, 1822	34, 322
Dibenzoxyanthracene	$\text{C}_6\text{H}_3(\text{OBz}) : \text{C}_2\text{H}_2 : \text{C}_6\text{H}_3.\text{OBz}$	$\text{C}_{28}\text{H}_{18}\text{O}_4$	....	abt. 263	Liebermann & Boeck	B., 11, 1616	36, 258
Benzoylbenzoic anhydride	$(\text{C}_6\text{H}_4\text{Bz.COO})_2\text{O}=(1.2)_2$	$\text{C}_{28}\text{H}_{18}\text{O}_5$	....	120	Pechmann	B., 14, 1866	.
Tribenzgalllic acid	$\text{C}_6\text{H}_2(\text{OBz})_3\text{COOH}=1.2.3.5$	$\text{C}_{28}\text{H}_{18}\text{O}_8$	....	d. 85	....	A., 163, 212	.
Tetrasalicylic acid	$\text{HO.C}_6\text{H}_4(\text{COO.C}_6\text{H}_4)_3.\text{COOH}$	$\text{C}_{28}\text{H}_{18}\text{O}_9$	....	sf. 70	Kraut, Schröder, and Prinzhorn	A., 150, 15	vi., 1007
Tetrasalicylide ....	....	"	....	230; sf. 205	Schiff	A., 163, 221	vii., 1067
Difrangulic acid ....	....	"	....	248-250	Faust	Z. C. [2], 5, 17	vi., 623
Isolepidene ....	....	$\text{C}_{28}\text{H}_{20}\text{O}$	....	150	Zinin	B., 5, 1105	26, 489
Lepidene ....	....	"	220	175+	"	A. C. [4], 12, 111	vi., 781
Oxylepidene (plates)....	....	$\text{C}_{28}\text{H}_{20}\text{O}_2$	....	136	"	B., 5, 1104	26, 489
" " " " .....	....	"	....	220	"	A. C. [4], 12, 111	vi., 781
" " (octohedra) ....	....	"	....	232	"	B., 5, 1105	26, 489
Oxyisolepidene ....	....	"	....	152·5	"	J. [1877], 396	.
" " " " .....	....	"	....	161	"	J. [1877], 395	.
" " " " .....	....	"	....	162	"	J. [1877], 396	.
From oxidation of $\text{C}_{28}\text{H}_{22}\text{O}_3$	....	$\text{C}_{28}\text{H}_{20}\text{O}_3$	....	98	Breuer and Zincké	A., 198, 141	38, 117
Dioxylepidene ....	....	"	....	157	Zinin	Z. C. [2], 7, 483	.
Dioxyisolepidene ....	....	"	....	164	"	B., 8, 696	28, 1005
Tetracetcoerulein ....	....	$\text{C}_{28}\text{H}_{20}\text{O}_{10}$	....	256	Buchka	A., 209, 276	.
Tetracethydrogallein	$\text{C}_6\text{H}_4.\text{COO.C}:[\text{C}_6\text{H}_2(\text{OAc})_2]:\text{O}$	$\text{C}_{28}\text{H}_{20}\text{O}_{11}$	....	247-248	"	A., 209, 263	42, 60
Diacetquercetin	$\text{C}_{24}\text{H}_{14}\text{O}_9(\text{OAc})_2$	$\text{C}_{28}\text{H}_{20}\text{O}_{13}$	....	196-198	Liebermann and Hansburger	B., 12, 1183	36, 945
Dihydroisolepidene ....	....	$\text{C}_{28}\text{H}_{22}\text{O}$	....	182	Zinin	J. [1877], 394	.
Hydro-oxylepidene ....	....	$\text{C}_{28}\text{H}_{22}\text{O}_2$	....	251	"	B., 8, 696	28, 1005
Oxylepidenic acid ....	....	$\text{C}_{28}\text{H}_{22}\text{O}_3$	....	196	"	B., 5, 1104	26, 489
Isoxylepidenic acid ....	....	"	....	166	"	J. [1877], 397	.
Benzoïn ether ....	....	"	....	157	....	A., 155, 94	.
From hydro and isohydrobenzoïn	....	"	....	154·5-155	Breuer and Zincké	A., 198, 169; B., 11, 76	34, 321 ; 36, 117
Isohydrobenzoïn dibenzoate	$\text{C}_{14}\text{H}_{12}(\text{OBz})_2$	$\text{C}_{28}\text{H}_{22}\text{O}_4$	....	153-154	Forst and Zincké	B., 7, 1714	28, 454
" " " " .....	"	"	....	155-156	" "	A., 182, 287	30, 636
Hydrobenzoïn dibenzoate ....	"	"	....	246-247	" "	B., 7, 1714	28, 454
" " " " .....	"	"	....	247	" "	A., 182, 278	30, 635
" " " " .....	"	"	....	242	Breuer and Zincké	A., 198, 141	38, 117
Dibenzoxy diphenylethane....	$\text{CH}_3.\text{CH}(\text{C}_6\text{H}_4.\text{OBz})_2$	"	....	152	Fabinyi	B., 11, 286	34, 431
α -Pyrocressol oxide ....	....	"	....	s. 168	Schwarz	B., 15, 2204 ; M. C., 3, 733	44, 206
β- " " " " .....	....	"	....	s. 95	"	" "	"
γ- " " " " .....	....	"	....	s. 77	"	" "	"
Benzilic anhydride ....	....	$\text{C}_{28}\text{H}_{22}\text{O}_5$	....	196	Jena	B., 2, 385	vi., 306
Tetracetyl gallin	$\text{COOH.C}_6\text{H}_4.\text{CH}:[\text{C}_6\text{H}_2(\text{OAc})_2]:\text{O}$	$\text{C}_{28}\text{H}_{22}\text{O}_{11}$	....	220	Buschka	A., 209, 269	42, 61
? ....	....	$\text{C}_{28}\text{H}_{24}\text{O}$	....	108	Jena and Limpricht	A., 155, 100	vii., 169
Tetrahydroisolepidene ....	....	"	....	132	Zinin	J. [1877], 395	.
β -Tolylphenyl pinacolin	$\text{C}_6\text{H}_4\text{Me.CPh}_2.\text{CO.C}_6\text{H}_4\text{Me}$	"	....	136-137	Thörner	A., 189, 108; B., 9, 485	30, 198
β - " " " "	or $\text{Bz.CPh}(\text{C}_6\text{H}_4\text{Me})_2$	"	....	136-137	Thörner and Zincké	B., 10, 1477	34, 223
α - " " " "	$\text{O} \begin{cases} \text{CPh.C}_6\text{H}_4.\text{Me} \\ \text{CPh.C}_6\text{H}_4.\text{Me} \end{cases}$	"	....	214-215	Thörner	A., 189, 108; B., 9, 484	34, 68 ; 30, 198
?	$\text{C}_{20}\text{H}_{12}\text{Ac}_4\text{O}_4$	$\text{C}_{28}\text{H}_{24}\text{O}_8$	....	148-150	Græbe and Caro	A., 179, 184	29, 589
Triacetylcotoïn	$\text{C}_{22}\text{H}_{15}\text{Ac}_3\text{O}_6$	$\text{C}_{28}\text{H}_{24}\text{O}_9$	....	94	Jobst and Hesse	A., 199, 27	38, 326
Tetraacetpupurogallin	$\text{C}_{20}\text{H}_{12}\text{Ac}_4\text{O}_9$	$\text{C}_{28}\text{H}_{24}\text{O}_{13}$	....	186	Clermont and Chautard	C. R., 94, 1362	42, 1066
Tolylphenyl pinacone ....	....	$\text{C}_{28}\text{H}_{26}\text{O}_2$	....	164-165	Thörner and Zincké	B., 10, 1476	34, 223

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Isodesoxybenzoïn pinacone....	....	$C_{28}H_{26}O_2$	....	161	Limpricht and Schwanert	A., 155, 98	
Desoxybenzoïn " ....	....	"	....	156	" "	A., 155, 62	vii., 173
" " " ....	....	"	....	213	Sagumenny	B., 5, 1102	26, 502
α -Pyrocressol	$(C_6H_4Me.C_6H_3Me)_2 : O_2$	"	....	s. 195	Schwarz	M. C., 3, 729; B., 15, 2203	44, 206
β- " " " " " ....	....	"	....	s. 124	"	" "	"
γ- " " " " " ....	....	"	....	s. 104-105	"	" "	"
Benzoïn pinacone	$CHPh(OH).(CPh(OH))_2$ $CHPh(OH)$	$C_{28}H_{26}O_4$	....	208	Goldenberg	B., 7, 287; A., 174, 333	27, 694; 28, 365
Triacetyl leucorosolic acid	$C_6H_3.OAc(CH_2.C_6H_4.OAc)_2$	$C_{28}H_{26}O_7$	....	148	Græbe and Caro	A., 179, 184	29, 590
" " " " " ....	"	"	....	148-149	" "	"	"
Oxidation of $C_{28}H_{22}O_3$	$C_{28}H_{20}O_3 ?$	$C_{28}H_{20}O_4$	....	98	Breuer and Zincké	A., 198, 141	38, 117
Colouring matter of Beth-barra wood	$C_{22}H_{28}O_4 ?$	$C_{28}H_{29}O_5$	....	135	Sadtler & Rowland	A., C. J., 3, 22	40, 1042
Anhydride of curcumin dihydride	$(C_{14}H_{16}O_4)_2O$	$C_{28}H_{30}O_9$	....	abt. 120	Jackson and Menke	A. C. J., 4, 360	44, 481
Erythric acid....	....	$C_{28}H_{30}O_{14}$	....	137	Hesse	A., 117, 304	ii., 502
Bixin ....	....	$C_{28}H_{34}O_5$	....	175-176	Etti	B., 11, 865	34, 739
Cetylic benzoate	$C_6H_5.COO(C_{16}H_{33})$	$C_{28}H_{38}O_2$	....	30	Becker	A., 102, 219	i., 840
Octacetsaccharose	$C_{12}H_{14}(OAc)_8O_3$	$C_{28}H_{38}O_{19}$	....	39-40	Demole	B., 12, 1936	
" " " " " ....	"	"	....	78 u. c.	Herzfeld	B., 13, 267	38, 620
" lactose ....	"	"	....	52	Demole	B., 12, 1936	
" " " " " ....	"	"	....	86 u. c.	Herzfeld	B., 13, 266	
" diglucose ....	"	"	....	39-40	Demole	B., 12, 1936	
" " " " " ....	"	"	....	100	Franchimont	B., 12, 1940; C. R., 89, 713	38, 159
" " " " " ....	"	"	....	134	Herzfeld	B., 13, 266	38, 619
" maltose ....	"	"	....	150-155 d.	"	A., 220, 206	48, 171
" " " " " ....	"	"	....	152 u. c.	"	B., 13, 267	38, 620
β -Paracatol ....	....	$C_{28}H_{40}O_2$	....	236	Jobst and Hesse	A., 199, 80	38, 328
γ- " " " " " ....	....	"	....	240-242	" "	A., 199, 81	"
Urechitin ....	....	$C_{28}H_{42}O_8$	....	b. 260	Bowrey	J. [1878], 974	33, 267
Cholesteryl acetate	$C_{26}H_{43}.O\bar{A}c$	$C_{28}H_{46}O_2$	....	92	Loebisch	B., 5, 513	vii., 329; 25, 808
Isocholesteryl acetate ....	....	"	....	b. 100	Schulze	J. p. [2], 7, 174	26, 1219
Resin from Gurjun balsam....	....	"	....	126-130	Flückiger	A. P. [3], 12, 58	34, 439
Cholesteryl acetic anhydride	....	$C_{28}H_{48}O_3$	....	110	....	J. [1863], 545	
From isobutaldehyde ....	....	"	227-229 (100)	Liquid	Perkin	....	43, 100
Stearocutic acid ....	....	$C_{28}H_{48}O_4$	....	76	Urbain	Ann. Agronom., 9, 529	48, 859
Aldehyde from cenanthaldehyde	$Me(CH_2)_5.CH:C(CH_2)_4.Me$ $CH:C(CH_2)_4.Me$	$C_{28}H_{50}O$	330-340(350); 330-340(300); 335-340 (350)	l. — 20	Perkin	B., 15, 2805, 2807; 16, 211	43, 50-64
α -Jalapic acid....	$Me(CH_2)_4.C(COOH):CH$	$C_{28}H_{50}O_{13}$	....	b. 80	Mayer	A., 95, 158	iii., 437
Myristic anhydride	$(C_{14}H_{27}O)_2O$	$C_{28}H_{54}O_3$	....	b. 54	Chiozza & Malerba	G. T., 2, 789	iii., 1072
From polymerised cenanthaldehyde	$Me.(CH_2)_5.CH(OH)$ $Me.(CH_2)_4.CH.CH(OH)$ $Me.(CH_2)_4.CH.$ $CH:C(COH).(CH_2)_4.Me$	"	330-340 (200)	l. — 10	Perkin	B., 16, 1035	43, 82
Geoceric acid ....	....	$C_{28}H_{56}O_2$	....	82	Bruckner	J. p., 57, 1	ii., 831
Geocerin ....	....	"	....	80	"	J. [1852], 649	
Dodecylpalmitate	$C_{15}H_{31}.COO.(CH_2)_{11}Me$	"	....	41	Krafft	B., 16, 3020	48, 572
Cenanthaldehyde (polymer)	$Me.(CH_2)_5.CH(OH)$ $Me.(CH_2)_4.CH.CH(OH)$ $Me.(CH_2)_4.CH.CH(OH)$ $Me.(CH_2)_4.CH.COH$	$C_{28}H_{56}O_4$	d. 115	52-53	Perkin	43, 80
Dibenzchrysophanic acid	$C_{29}H_{18}O_6$	200	A., 183, 173; 212, 38	

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Piscidin	$C_{29}H_{44}O_8$	192 u. c.	Hart	A. C. J., 5, 39	46, 332
Diacetyl eupittonic acid	$C_{25}H_{24}Ac_2O_9$	$C_{25}H_{30}O_{11}$	265 d.	Hofmann	B., 12, 2218	38, 165
Diethyl eupittonate ....	....	$C_{29}H_{34}O_9$	....	201-202	"	B., 12, 2220	"
Onospin ....	....	$C_{29}H_{34}O_{12}$	....	162	....	J. [1855], 715	"
Resineon ....	....	$C_{29}H_{46}O$	148	Liquid	Fremy	A., 15, 284	41, 167
Diacetoxyhydroxycholesterin	$C_{25}H_{40}O(OAc)_2$	$C_{29}H_{46}O_5$	....	77	Latschinoff	B., 11, 1942	36, 135
Isocerylic acetate	$CH_3.COOC_{27}H_{55}$	$C_{29}H_{58}O_2$	....	57	Kessel	B., 11, 2114	36, 262
Ethyl cerotate	$C_{26}H_{53}.COOEt$	"	....	59-60	Brodie	A., 67, 189	i., 837
" " ....	"	"	....	60.3	Duffy	J., 5, 511	"
? ....	....	$C_{30}H_{20}O_3$	....	246	....	M. C., 1, 234	"
Dibenzocampheride	$C_{16}H_{10}O_6Bz_2$	$C_{30}H_{20}O_8$	....	185-186	Jahns	B., 14, 2388	42, 209
?	$C_{15}H_{12}O?$	$C_{30}H_{22}O$	....	217-218	Börnstein	B., 15, 1823	"
From dioxyretistene ....	....	$C_{30}H_{22}O_4$	....	151-152	Ekstrand	B., 17, 693	46, 1041
Pentacetyl cœrulín	$C_6H_4.C_6H_5(OAc)_2 \begin{array}{c} \diagup \\ \diagdown \end{array} O$ $C(OAc).C_6H(OAc)_2$	$C_{30}H_{22}O_{11}$	....	256	Buchka	A., 209, 249	42, 62
Tribenzoylmesitylene ....	....	$C_{30}H_{24}O_3$	....	215-216	Louise	C. R., 98, 1440	46, 1000
Patchouli camphor	$v. C_{15}H_{26}O$	$C_{30}H_{28}O_2$	296	54-55	Gal	Z. C., 12, 220	"
From dioxyretistene ....	....	$C_{30}H_{26}O_2$	....	90-91	Ekstrand	B., 17, 693	46, 1041
Diphenylmethylic succinate	$(CH_2.COOCPh)_2$	$C_{30}H_{26}O_4$	....	141-142	Linnemann	A., 133, 23	iv., 479
Ethyl dibenzoin	$CPh_2(OEt).CO.CO.CPh_2OH$	"	....	200	Limpriecht and Schwanert	B., 4, 336; A., 155, 93	24, 536; vii., 170
Lapaconic anhydride ....	....	$C_{30}H_{26}O_5$	....	155-156	Paternò	B., 16, 803	"
Chrysarobin ....	....	$C_{30}H_{26}O_7$	....	170-178	....	A., 212, 29	"
Dibenzoyl hydrocœrulignone	$C_{16}H_{16}Bz_2O_6$	$C_{30}H_{26}O_8$	....	244	Liebermann	B., 6, 382; A., 169, 237	26, 1033; vii., 377
Pentacetgallol	$CH_2(OAc)C_6H_4.CH:$ $[C_6H_2(OAc)_2]_2 : O$	$C_{30}H_{26}O_{11}$	....	230	Buchka	A., 209, 269	42, 61
? ....	....	$C_{30}H_{28}O_4$	....	abt. 120	Hodgkinson	....	37, 486
Lapacone	$(C_{10}H_4.C_6H_{11}.OH)_2 : (O_2)_2''$	$C_{30}H_{28}O_6$	....	116-117	Paternò	G. I., 22, 337; B., 16, 803	44, 213
Hexamethylquercetin	$C_{24}H_{10}Me_6O_{11}$	$C_{30}H_{28}O_{11}$	....	156-157	Herzig	M. C., 5, 72	46, 847
Triopianid	$v. C_{40}H_{38}O_{19}$	$C_{30}H_{28}O_{14}$	....	225-227	....	M. C., 4, 263	"
From rottleratinctoria	....	$C_{30}H_{30}O_7$	....	100	Anderson	E. N., 1, 300	v., 118
? ....	....	$C_{30}H_{32}O_2$	....	134	Ekstrand	B., 17, 694	46, 1041
Ononin	$v. C_{62}H_{68}O_{27}$	$C_{30}H_{34}O_{13}$	....	235 d.	....	J. [1855], 713	"
Picrotoxin	$v. C_{12}H_{14}O_5$	"	$C_{36}H_{40}O_{16}$	200	Paternò & Oglialoro	B., 14, 541	"
Coriamyrtin ....	....	$C_{30}H_{36}O_{10}$	....	220	Riban	Z. C. [1866], 1663	v., 1090
Cymylenethymol	$(C_6H_3.Me.Pr.O)_2(C_{10}H_{12})''$	$C_{30}H_{38}O_2$	....	157	Engelhardt and Latschinoff	Z. C. [1869], 43	vi., 1096
From oil of monarda ....	....	$C_{30}H_{42}O$	224	Liquid	Arppe	A., 58, 41	iii., 1046
Camphrone ....	....	$C_{30}H_{44}O$	75	Liquid	Fremy	A. C. [2], 59, 16	i., 733
From sandal wood ....	....	$C_{30}H_{48}O$	280-285	....	Chapoteaut	B. S., 37, 303	44, 76
Echiceric acid ....	....	$C_{30}H_{46}O_4$	....	100 +	Jobst and Hesse	A., 178, 64	29, 277
Echicerin ....	....	$C_{30}H_{48}O_2$	....	157	" "	A., 178, 61	29, 276
Cubebene hydrate	$C_{30}H_{48} + 2H_2O$	$C_{30}H_{52}O_2$	148	67	Schaer and Wyss	A. P. [3], 6, 316	29, 942
Lithobilic acid	$C_{29}H_{57}O_4.COOH$	$C_{30}H_{58}O_5$	....	199	Roster	G. I., 9, 462; B., 12, 1925	38, 271
Melissic acid	$C_{29}H_{59}.COOH$	$C_{30}H_{60}O_2$	....	88-89	Brodie	A., 71, 156	iii., 869
" " ....	"	"	....	88.5	Pieverling	A., 183, 353	31, 587
Action of potash on myricin	....	$C_{30}H_{62}O$	....	72	Brodie	P. T., 1848	iii., 1069
Myricyl alcohol	$C_{30}H_{61}.OH$	"	....	85	Pieverling	A., 183, 344	31, 586
" " ....	"	"	....	85	Brodie	A., 71, 147; P. T., 1848	iii., 1069
" " ....	"	"	....	abt. 88	Maskelyne	22, 87	vi., 391
Triaphthylcarbinol	$(C_{10}H_7)_3.COH$	$C_{31}H_{22}O$	....	278; sf. 180	Elbs	B., 16, 1276	44, 1000
Benzoydibenzyleymene	$C_6H.OBz.Me.Pr.(CH_2Ph)_2$	$C_{31}H_{30}O_2$	....	75-80	Mazzara	G. I. [1881], 346 and 433	42, 173
?	$C_{17}H_{16}O_8?$	$C_{31}H_{30}O_9$	....	249	....	J. p. [2], 26, 70	"
Daphnin ....	....	$C_{31}H_{34}O_{19}$	....	abt. 200	....	....	ii., 304
From quassiin	$C_{31}H_{38}O_9$	237	Christensen	B., 15, 2624	"
Kosin	$C_{31}H_{38}O_{10}$	142	J. [1874], 900	"

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Cetyllic stearate	$C_{17}H_{35}.COO(C_{16}H_{33})$	$C_{34}H_{68}O_2$	55-60	Berthelot	J. [1858], 419 ; A. C. [3], 56, 70	i., 842 ; v., 421
Dicetylacetic acid	$CH(C_{16}H_{33})_2.COOH$	"	....	69-70 n. c.	Guthzeit	A., 206, 365	40, 409
Geomyricin ....	....	"	....	80-83	Bruckner	J. p., 57, 1	ii., 831
Acid from beeswax ....	....	"	....	91	Schalfeieff	B. S. [2], 26, 450	31, 455
Tribenzanthrapurpurin	$C_{14}H_5O_2.(OBz)_3$	$C_{35}H_{20}O_8$	....	183-185	Perkin	J. [1873], 452	vii., 90 ; 26, 431
Phenanthrene benzalquin	$O.CHPh.[C:CH(C_6H_4)_2]_2$	$C_{35}H_{24}O$	....	325 ; 329.5	Japp and Wilcock	....	37, 662
From orcinol	$C_{31}H_{28}Ac_2O_9$	$C_{36}H_{34}O_{11}$	or $C_{19}H_{18}O_6$	200	Wittenberg	J. p. [2], 26, 71	42, 1290
Echiretin ....	....	$C_{35}H_{26}O_2$	....	52	Jobst and Hesse	A., 178, 49	29, 277
Elemic acid	$(C_5H_8)_7O_4$	$C_{35}H_{26}O_4$	....	215	Buri	P. J. T. [3], 8, 601	34, 440
From Satureja Juliana ....	....	"	....	n.f. 250	Spica	G. I., 9, 285	38, 128
Dicetylmalonic acid	$C(C_{16}H_{33}/2).(COOH)_2$	$C_{35}H_{68}O_4$	....	86-87 n. c.	Guthzeit	A., 206, 364	40, 409
Glycerol dipalmitate (dipalmitin)	$C_3H_5(OH)(OC_{16}H_{31}O)_2$	$C_{35}H_{68}O_6$	....	59	Berthelot	A. C. [3], 41, 240	iv., 335
Stearone	$(C_{17}H_{35})_2CO$	$C_{35}H_{70}O$	....	88.4	Krafft	B., 15, 1715	42, 1272
" ....	"	"	....	87.8	Heintz	P. A., 94 or 96	v., 425
" ....	"	"	....	86	Bussy	A., 9, 270	
Isoamylic melissate	$C_{29}H_{59}.COOC_6H_{11}$	$C_{35}H_{70}O_2$	....	69	Pieverling	A., 183, 356	31, 587
Anamirtic acid ....	....	$C_{35}H_{70}O_4$	....	68	Francis	A., 42, 254	i., 289
Oxide of naphthobenzoic acid	$O(C_{10}H_6.CO.C_6H_4.COOH)_2$ = $(\alpha, \beta ; 1.2)_2$	$C_{36}H_{22}O_7$	....	146	Walder	B., 16, 305	44, 666
Cresolphthalein dibenzoate	$C_6H_4(CO.C_6H_3.Me.OBz)_2$ = $(1.3.4 \text{ or } 1.4.3)_2$	$C_{36}H_{26}O_6$	....	195-196	Fraude	A., 202, 157 ; B., 12, 238	36, 635
Dithymolethane dibenzoate	....	$C_{36}H_{38}O_4$	....	190	Steiner	B., 11, 288	34, 507
Quercitrin	see $C_{15}H_{18}O_9$	$C_{36}H_{38}O_{20}$	....	160	Zwenger & Dronke	As., 1, 266	v., 7
" ....	....	"	....	168 d.	Richter	R. K. T.	
Hexethylquercetin	$C_{24}H_{10}Et_6O_{11}$	$C_{36}H_{40}O_{11}$	....	120-122 n. c.	Herzig	M. C., 5, 72	46, 846
Picrotoxin	v. $C_{12}H_{14}O_5$	$C_{36}H_{40}O_{16}$	$C_{30}H_{34}O_{13}$	199-200	Paternò & Ogialoro	B., 14, 539	
" ....	....	"	....	201	Barth & Kretschy	B., 13, 1243	
Helleborin ....	....	$C_{36}H_{42}O_6$	....	a. 250 d.	....	A., 135, 61	
Betulinamaric anhydride ....	....	$C_{36}H_{48}O_{14}$	....	181=185 c.	Hausmann	A., 182, 375	31, 95
Betulinic acid ....	....	$C_{36}H_{54}O_8$	....	195=200 c.	"	"	31, 96
Betulin anhydride ....	....	$C_{36}H_{56}O$	....	243	"	"	31, 95
α -Storesin ....	....	$C_{36}H_{58}O_3$	....	160-168	Miller	A., 188, 208	34, 160
β- " ....	....	"	....	140-145	"	A., 188, 209	
Betulin ....	....	$C_{36}H_{60}O_3$	....	abt. 200	....	....	i., 583
" ....	....	"	....	251	Franchimont and Wigman	B., 12, 7	36, 469
" ....	....	"	....	258 c.	Hausmann	A., 182, 368	31, 95
Phyllic acid ....	....	$C_{36}H_{64}O_8$	....	170	Bougarel	B. S., 28, 148	32, 905
Betuloretinic acid ....	....	$C_{36}H_{66}O_6$	....	94	....	J. P. [3], 26, 197	
Gentianose ....	....	$C_{36}H_{66}O_{31}$	....	210	Meyer	Z. P. C., 6, 135	44, 810
Distearin	$C_{17}H_{35}.CO.CO.C_{17}H_{35}$	$C_{36}H_{70}O_2$	....	76.5	Hundeshagen	J. p. [2], 28, 219	46, 280
Dicetyllic succinate	$(CH_2.COOC_{16}H_{33}/2)$	$C_{36}H_{70}O_4$	....	58	Tüttscheff	R., 2, 463 ; J., 13, 406	v., 463
? ....	....	$C_{37}H_{36}O$	a. 360	....	....	J. p. [2], 4, 448	
Catechin tetraanhydride ....	....	$C_{38}H_{28}O_{12}$	....	n.f. 190	Etti	A., 186, 327	32, 490
" dianhydride ....	....	$C_{38}H_{32}O_{14}$	....	d. 210 w.m.	"	"	"
Tetra acetichrysarobin	$C_{30}H_{22}O_3(OAc)_4$	$C_{38}H_{34}O_{11}$	v. $C_{40}H_{36}O_{12}$	228-230	Liebermann and Seidler	B., 11, 1608 ; A., 212, 34	36, 327 ; 42, 858
From lapachic acid ....	....	$C_{38}H_{38}O_{10}$	....	131-132	Paternò	G. I., 12, 337	44, 211
From picurim oil ....	....	$C_{38}H_{68}O$	260-265	....	Müller	J. p., 58, 463	iv., 637
β -Chinovin ....	....	$C_{38}H_{62}O_{11}$	....	235 d.	Liebermann and Giesel	B., 16, 930	
" + $5C_2H_6O$ ....	....	"	....	70-80	....	"
Ethylene distearate	$C_2H_4(O.C_{18}H_{35}O)_2$	$C_{38}H_{74}O_4$	....	76	Wurtz	A. C. [3], 55, 436 ; J., 12, 486	ii., 582 ; v., 420
Dibenzoyl eupittonic acid	$C_{25}H_{24}Bz_2O_9$	$C_{39}H_{34}O_{11}$	....	232	Hofmann	B., 12, 2219	38, 165
Glycerol dioleate (diolein)	$C_3H_5(OH)(OC_{18}H_{33}O)_2$	$C_{39}H_{72}O_5$	....	s. 15	Berthelot	A. C. [3], 41, 250	iv., 195
Glycerol diricinelaïdate (ricinelaïdin)	$C_3H_5(OH)(OC_{18}H_{33}O)_2$	$C_{39}H_{72}O_7$	....	43	Playfair	A., 60, 322	v., 109
" " ....	"	"	....	45	Bouis	A. C. [3], 44, 82	" 2 R

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Glycerol diricinelaifate (ricinelaifdin)	$C_3H_5(OH)(OC_{18}H_{33}O_2)_2$	$C_{39}H_{72}O_7$	....	62-66	Boudet	A., 4, 16	v., 109
Glyceroltrilaurate (laurostearin)	$C_3H_5(O.C_{12}H_{23}O)_3$	$C_{39}H_{74}O_6$	....	s. 44-45	Reichardt	A. P. [3], 10, 339	32, 518
"	"	"	....	44-48	"	"	"
Glyceroldistearate (distearin)	$C_3H_5(OH)(O.C_{18}H_{35}O)_2$	$C_{39}H_{76}O_6$	....	58	Berthelot	A. C. [3], 41, 226	v., 422
From canaüba wax ....	....	$C_{39}H_{82}O_3$	....	105	Maskelyne	22, 87	vi., 391
Oil from nutmeg ....	....	$C_{40}H_{16}O$	212-218	Liquid	Wright	26, 549	vii., 862
Tri- α -naphtholpyromellitic acid	....	$C_{40}H_{24}O_8$	....	245	Grabowski	B., 6, 1068	
Benzeneresorcinphthalein anhydride	....	$C_{40}H_{28}O_7$	....	285	Pechmann	B., 14, 1862	42, 184
Emodin	$C_{15}H_{10}O_4$	$C_{40}H_{30}O_{13} (?)$	....	a. 250	Warren De la Rue and Müller	10, 304	ii., 485
Octacetyl-quercetin	$C_{24}H_8Ac_8O_{11}$	$C_{40}H_{32}O_{19}$	....	189-191	Herzig	M. C., 5, 72	46, 847
Pent-acetchrysarobin	$C_{30}H_{21}Ac_5O_7$	$C_{40}H_{36}O_{12}$	v. $C_{36}H_{34}O_{11}$	228-230	Liebermann	A., 212, 33	42, 858
Corallin	cf. $C_{20}H_{16}O_3$	$C_{40}H_{38}O_{11}$	....	80	Kolbe and Schmidt	J. p. [2], 5, 184	25,705; vii., 391
" ....	....	"	....	150	Fresenius	J. p. [2], 3, 477	vii., 118
" ....	....	"	....	154-155	Erhardt	A. P. [3], 8, 481	34, 316
" ....	....	"	....	156	Fresenius	J. p. [2], 5, 184	25,705; vii., 391
Catechin, from Gambir ....	....	$C_{40}H_{38}O_{16}$	....	163	Gautier	C. R., 86, 668	34, 516
"	....	"	....	176-177	"	"	"
"	....	"	....	204-205	"	"	"
From opianic acid	v. $C_{30}H_{28}O_{14}$	$C_{40}H_{38}O_{19}$	....	a. 200	....	As., 7, 65	"
Retinic acid ....	....	$C_{40}H_{64}O_6$	....	120 p.d.	Johnston	....	v., 98
Unodeca-acet-triglucose	$C_{16}H_{21}O_6(OAc)_{11}$	$C_{40}H_{54}O_{27}$	....	212	Franchimont	C. R., 89, 711	36, 159
Action of P_2O_5 on galbanum oil	....	$C_{40}H_{58}O$	252	....	Missmer	A., 119, 257	ii., 759
Resin ....	....	$C_{40}H_{58}O_5$	....	a. 120	Guareschi	Cimento v-vi, 175	vii., 1040
Absinthin	$2C_{20}H_{28}O_4.H_2O$	$C_{40}H_{58}O_9$	....	120-125	Kromayer	A. P. [2], 108, 129	vi., 2
From sandal wood ....	....	$C_{40}H_{60}O_2$	a. 350	....	Chapoteant	B. S., 37, 303	44, 76
Unripe amber (resin) ....	....	$C_{40}H_{62}O$	....	a. 300	Spirgatis	N. R. P., 20, 321	vii., 1039
Retinite (Walchovite) ....	....	$C_{40}H_{62}O_3$	....	250	Schrötter	P. A., 59, 61	v., 98
From sandal wood ....	....	"	340	Liquid	Chapoteant	B. S., 37, 303	44, 76
From orange peel ....	....	$C_{40}H_{64}O_5$	240-250	....	Wright and Peisse	24, 1186	vii., 877
Betulin diacetate ....	....	"	....	223 c. ; 277	Hausmann	A., 182, 372	31, 95
Resin ....	....	$C_{40}H_{64}O_8$	....	75-90	Guareschi	Cimento v-vi, 175	vii., 1040
Lactucerin	$C_{20}H_{32}O_2$	$C_{40}H_{66}O_3 ?$	....	175	Flowers	P. J. T. [3], 10, 44	36, 1041
Lactucine	v. $C_{14}H_{24}O$	" (?)	....	150-160	Lenoir	A., 59, 83	iii., 465
Parillin ....	....	$C_{40}H_{70}O_{18}$	....	210	Flückiger	P. J. T. [3], 8, 488	34, 327
Acetone on benzaldehyde	cf. $C_{17}H_{14}O$	$C_{41}H_{34}O_3$	....	110	Schmidt	B., 14, 1461	40, 889
Acid from cholic acid ....	....	$C_{41}H_{68}O_{22}$	....	196-198	Tappeiner	Z. B., 12, 60	31, 213
Resin from Larch agaric ....	....	$(C_{41}H_{77}O_8)_n$	....	125	Masing	A. P. [3], 6, 111	29, 612
Acetyldistearylglycerol	$C_3H_5(OSt)_2(OAc)$	$C_{41}H_{78}O_6$	....	28-30	Hundeshagen	J. p. [2], 28, 219	46, 280
Catechin	from Acajou wood	$C_{42}H_{34}O_{16}$	....	164-165	....	B. S., 30, 568	
"	$C_{21}H_{18}O_8$	$C_{42}H_{36}O_{16}$	....	188-190	....	B. S., 28, 146	
β - "	$C_{42}H_{38}O_{16}$	....	176-177	....	B. S., 30, 567	
Amarinic acid $-2\frac{1}{2}H_2O$ ....	....	$(C_{42}H_{37}O_{14})_2$	....	155	Zinin	Z. C. [2], 7, 127	24, 540
" " $-H_2O$ ....	....	$C_{42}H_{40}O_6$	....	140	"	"	"
Octacetyl-?	$C_{26}H_{22}O_7(OAc)_8$	$C_{42}H_{46}O_{23}$	....	110-111	Michael	B., 15, 1923 ; A. C. J., 5, 171	44, 77 ; 46, 439
Hexacetylcoriamyrtin ....	....	$C_{42}H_{48}O_{16}$	....	b. 100	....	Z. C. [1866], 665	
Octacetylhellicoidin ....	....	$C_{42}H_{50}O_{22}$	....	80	....	A., 154, 29	
Echitein (dextrorotary) ....	....	$C_{42}H_{70}O_2$	....	195	Jobst and Hesse	A., 178, 49	29, 277
Cocinin ....	....	$C_{42}H_{60}O_6$	....	33-5	Duffy	J., 5, 511	
Glyceroldiarachate (diarachin)	$C_3H_5(OH)(OC_{20}H_{39}O)_2$	$C_{43}H_{84}O_5$	....	75	Berthelot	A. C. [3], 47, 358	
Cerylic palmitate	$C_{15}H_{31}.COO(C_{27}H_{55})$	$C_{43}H_{86}O_2$	....	79	Hesse	B., 3, 639	vii., 277
Diacylphenylresorcino-phthalein anhydride	....	$C_{44}H_{30}O_9$	....	245	Pechmann	B., 14, 1863	42, 184
Dicotoin ....	....	$C_{44}H_{34}O_{11}$	....	74-77	Jobst and Hesse	A., 199, 29	38, 326
Picrotoxinin benzoic anhydride	$(C_{15}H_{16}O_6)_2.Bz_2O$	$C_{44}H_{42}O_{15}$	....	237-238	Schmidt	A., 222, 313	46, 845
Dithymylquinhydrone	$[C_{10}H_{12}O.C(C_{10}H_{12}OH).CH_2]$	$C_{44}H_{54}O_4$	214-215	Jäger	B., 7, 1199	31, 263

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Abietic acid	$C_{44}H_{64}O_5$	129-144	Maly	A., 129, 94	vii., 378
" "	"	135	Flückiger	J. [1867], 727	39, 265
" " ....	....	"	....	139	Emmerling	B., 12, 1442	"
" " ....	....	"	....	150	Sievert	J. [1859], 508	"
" " ....	....	"	....	165	Maly	A., 132, 249	"
" " ....	....	"	....	165	Kelbe	B., 13, 888	38, 670
Anacardic acid	v. $C_{22}H_{32}O_3$	$C_{44}H_{64}O_7$	....	26	Städeler	A., 63, 137	i., 209
Action of HCl on betulin-amaric acid	....	$C_{44}H_{64}O_{14}$	....	119 c.	Hausmann	A., 182, 368	31, 96
Hydrabietic acid ....	....	$C_{44}H_{66}O_5$	....	140-145	....	Z. C. [1866], 34	
" " ....	....	$C_{44}H_{68}O_5$	....	160	Maly	A., 129 and 132	vii., 379
Ethyl betulinamarate ....	....	$C_{44}H_{68}O_{14}$	....	117	Hausmann	A., 182, 378	
Cholesteryl stearate ....	....	$C_{44}H_{78}O_2$	....	65	Berthelot	A. C. [3], 56, 57	
Isocholesteryl stearate ....	....	"	....	72	Schulze	J. p. [2], 7, 174	26, 1220
Fluoranthene + fluoranthene quinone	$C_{16}H_8O_2 + 2C_{15}H_{10}$	$C_{45}H_{28}O_2$	....	102	Fittig & Liepmann	A., 200, 4	38, 401
? ketone ....	....	$C_{45}H_{66}O$	a. 360	....	....	A., 202, 329	
Dammaryllic acid ....	....	$C_{45}H_{72}O_3$	....	60	....	J. [1847-48], 741	
" " + H_2O ....	....	"	....	56	....	"
Icacin	$C_{47}H_{78}O ?$	$C_{45}H_{74}O$	$C_{45}H_{76}O ?$	175	Stenhouse & Groves	A., 180, 256	30, 425
Glyceroltrimyristate (myristin)	$C_3H_5(O.C_{14}H_{27}O)_3$	$C_{45}H_{66}O_6$	....	31	Playfair	P. M. [3], 18, 103	iii., 1072
" " ....	....	"	....	31	Reichardt	A. P. [3], 10, 339	32, 518
" " ....	....	"	....	46	"	"	"
" " ....	....	"	....	55	Masino	G. I., 10, 72	38, 460
Amaric anhydride ....	....	$C_{46}H_{38}O_4$	....	140.5	Zinin	B., 10, 1735	34, 152
Amaric acid ....	....	$C_{46}H_{42}O_5$	....	140; a. f. 155	"	Z. C. [2], 7, 538	vii., 55
Icacin	$C_{47}H_{78}O ?$	$C_{45}H_{76}O$	$C_{45}H_{74}O ?$	175	Stenhouse & Groves	A., 180, 256	30, 425
Myricyl palmitate (myricin)	$C_{15}H_{31}.COO(C_{30}H_{61})$	$C_{46}H_{92}O_2$	....	71.5-72	Brodie	A., 71, 244	iii., 1069
Gallein tetrabenzoate	$C_6H_4.COO.C:[C_6H_2(OBz)_2]_2.O$	$C_{46}H_{28}O_{11}$	....	231	Buchka	A., 209, 264	42, 61
Hexbenzodulcite	$C_6H_5(OBz)_6$	$C_{48}H_{36}O_{12}$	....	147	Bouchardat	A. C. [4], 27, 68; B. S. [2], 18, 115	vii., 442; 25, 1093
Ononetin ....	....	$C_{48}H_{44}O_{13}$	....	120	Hlasiwetz	J. p., 65, 142	iv., 202
Myroxocarpin ....	....	$C_{48}H_{70}O_6$	....	115	Stenhouse	A., 78, 306	iii., 1075
Theveresin ....	....	$C_{48}H_{70}O_{17}$	....	140	....	J. [1868], 769	
Tetretethylcolanic acid	$C_{40}H_{52}Et_4O_{12}$	$C_{48}H_{72}O_{12}$	....	130-131	Latschinoff	B., 13, 1056	38, 723
Pyromellithin-tetra- α -naphthol anhydride	....	$C_{50}H_{26}O_6$	....	a. 360	Grabowski	B., 6, 1066	
γ -Pyromellitein-tetra- α -naphthol hemianhydride	....	$C_{50}H_{28}O_7$	....	265	"	B., 6, 1067	vii., 840; 27, 65
β- " " ....	....	"	....	a. 360	"	"	
α- " " ....	....	"	....	a. 360	"	"	
Leucopetrin ....	....	$C_{50}H_{42}O_3$	....	a. 100	Bruckner	J. p., 57, 1	ii., 830
Isobutylamaric anhydride	....	$C_{50}H_{46}O_4$	....	137	Zinin	B., 10, 1737	34, 153
" acid ....	....	$C_{50}H_{50}O_6$	....	175-179	"	"	"
Tarconyl alcohol	$C_{51}H_{104}O ?$	$C_{50}H_{102}O$	$C_{62}H_{106}O ?$	82; a. f. 72	Canzonieri and Spica	G. I. [1882], 227	42, 1040
Glycerol tripalmitate (tripalmitin)	$C_3H_5(O.C_{16}H_{31}O)_3$	$C_{51}H_{98}O_6$	....	60	Berthelot	J., 6, 453	iv., 335
" " " ....	"	"	....	61; s. 46	Reichardt	A. P. [3], 10, 339	32, 518
" " "	"	"	1st modification	46	Duffy	J., 5, 519	
" " "	"	"	2nd "	61.7	"	"	
" " "	"	"	3rd "	62.8	"	"	
Tarconyl alcohol	See $C_{50}H_{102}O$	$C_{51}H_{104}O$; $C_{52}H_{106}O$	....	....	....	....	....
Abietin ....	....	$C_{53}H_{76}O_8$	....	125	Maly	Z. C. [1866], 33	vii., 379
Cerotinone ....	....	$C_{53}H_{106}O$	....	62	Bruckner	J. p., 57, 17	
Thevetin ....	....	$C_{64}H_{84}O_{24}$	....	170	....	J. [1868], 768	
Ceryl cerotate	$C_{26}H_{63}.COO(C_{27}H_{55})$	$C_{54}H_{108}O_2$	82.5	Hesse	B., 3, 638	vii., 277
" "	"	"	82	Brodie	A., 67, 213	i., 837
Geocerinone	$C_{55}H_{110}O$	50	Bruckner	J. p., 57, 1	ii., 831

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Octomethoxybenzoid	$C_{66}H_{34}O_{17}$	160-165	Schiff	B., 15, 2588	44, 335
Cumenyl crotonic acid + isobutyric acid	$4(C_{13}H_{16}O_2) + C_4H_8O_2$	$C_{66}H_{72}O_{10}$	80	Perkin	35, 137
Glycerol trioleate (triolein)	$C_3H_5(O.C_{18}H_{33}O)_3$	$C_{57}H_{104}O_6$	....	s. 9-10	Reichardt	A. P. [3], 10, 339	32, 518
" " "	"	"	....	100	....	....	iv., 195
" trielaïdate (trielaïdin)	"	"	....	32	Mayer	A., 35, 178	ii., 368
" " "	"	"	....	38	....	J. [1852], 511	....
" tristearate (tristearin)	$C_3H_5(O.C_{18}H_{35}O)_3$	$C_{57}H_{110}O_6$	....	s. 44	Chevreur	....	v., 423
" " "	"	"	....	50	Thoulet	C. R., 94, 1047	42, 790
" " "	"	"	....	a. 60	Deite	D. P., 231, 168	36, 569
" " "	"	"	....	s. 61	Braconnot	A. C. [3], 41, 228	v., 423
" " "	"	"	....	s. 60-62	Liebig and Pelouze	A., 19, 264	"
" " "	"	"	....	s. 62	Lecanu	A., 12, 25	"
" " "	"	"	....	s. 62	Heintz	....	"
" " "	"	"	....	62	Reichardt	A. P. [3], 10, 339	32, 518
" " "	"	"	1st modification	60	Kopp	A., 93, 194	....
" " "	"	"	"	52	Duffy	....	5, 197, 303
" " "	"	"	"	65; 65.5; 69.7	"	J., 5, 510	v., 423
" " "	"	"	2nd "	64.2; 69.7	"	"	5, 197, 303
" " "	"	"	3rd "	69.7; s. 50.5-51.7	"	....	"
" " "	"	"	4th "	Liquid	"	J., 5, 510	"
Onospin ....	....	$C_{60}H_{68}O_{26}$	....	162	Hlasiwetz	W. A., 15, 142	iv., 203
Copaivaol hydrate	$3C_{20}H_{32}.H_2O$	$C_{60}H_{98}O$	252-260	....	Brix	M. C., 2, 537	42, 65
Mellisyl mellisate	$C_{30}H_{59}.COO.C_{30}H_{61}$	$C_{60}H_{120}O_2$	....	63	Kissling	B., 16, 2432	46, 173
Ononin	v. $C_{30}H_{34}O_{13}$	$C_{62}H_{68}O_{27}$	....	235	Hlasiwetz	W. A., 15, 142	iv., 203
Theobromic acid ....	....	$C_{64}H_{128}O_2$	....	72.2	Kingzett	B., 10, 2243	....
From dioxystetene	$C_{30}H_{28}(OAc)_2.C_3H_{25}(OAc).OH$	$C_{66}H_{66}O_7$	....	70	Ekstrand	B., 17, 694	46, 1041
Jalapic acid	v. $C_{34}H_{60}O_{18}$	$C_{68}H_{118}O_{35}$	....	120	Mayer & Spirgatis	A., 95, 136; 116, 301	iii., 437
Benzamarone ....	....	$C_{70}H_{66}O_4$	....	225	Zinin	Z. C. [2], 7, 127	24, 540; vii., 129
Oil of ginger ....	....	$C_{80}H_{138}O_5$	246	....	Papoulsk	J., 5, 624	....
Agaricic acid	Composition unknown	$C_xH_yO_z$	....	145.7	Fleury	J. p. [4], 10, 202	vii., 30
Agaricin (alcohol?)	"	"	....	272	Jahns	A. P. [3], 21, 260	46, 354
Antherosperma nyxhatum, oil of	"	"	224	....	Gladstone	....	25, 12
Apiol, action of KHO on	65.4 % C; 5.5 % H	"	....	53.5	Gerichten	B., 9, 1478	31, 326
Asebotoxin	60.48 % C; 7.4 % H	"	....	120	Eijkmann	B., 16, 86, 430	44, 215, 349
Atractyligenin	Composition unknown	"	....	a. 100	Lefranc	C. R., 67 or 76	vii., 117
Beechblight (wax)	"	"	....	78-80	König	L. V. S., 16, 198	26, 1156
" " (alcohol)	"	"	....	49-51.5	"	"	"
" " (acid)	"	"	....	51.5	"	"	"
Capnomor	"	"	185	....	Reichenbach	J. F. P., 1, 6	....
Ceratophyllin ....	"	"	....	147	Hesse	A., 119, 365	iv., 635
Citraconic acid, from	"	"	232	....	Prehn	B., 8, 20	28, 632
Columbo root, from ....	"	"	....	218-220	Paternò & Ogialoro	G. I., 9, 64; B., 12, 685	36, 730
Dehydromucic acid, from ....	"	"	....	abt. 140	Fittig	B., 9, 1199	31, 65
Ergot, from	"	"	209 u. c.	165	Tauret	J. Ph., 26, 320	34, 81
Eucalyptus globulus, from	77 % C; 11 % H	"	acid ?	245-247	Hurtzer	B., 9, 315	29, 942
Fiscic acid	Composition unknown	"	....	204-204.5; 200	Paternò	G. I. [1882], 231	42, 1083
Guaiaretic acid, from ....	"	"	....	183-185	Herzig	M. C., 3, 822	44, 470
Hay, from meadow	73.27 % C; 12.41 % H	"	....	20	König and Kiesow	L. V. S., 17, 1	27, 597
" "	81.43 % C; 13.71 % H	"	....	73-74	König & Arouheim	"	"
Lign aloes, oil of	Composition unknown	"	200	....	Gladstone	....	25, 12

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Maltodextrin, acetyl deriv.	Composition unknown	$C_2H_7O_2$	....	98	Herzfeld	B., 13, 267	38, 620
Meteceric acid ....	"	"	....	105-110	Arata	G. I., 7, 366	34, 325
Omphalocarpum procera, from	"	"	acid	32	Naylor	P. J. [3], 12, 478	42, 308
Oxyquinhydrone of $C_{16}H_{12}$ ....	"	"	....	154-155	Breuer and Zincké	B., 11, 1997	36, 327
Pectin sugar ....	"	"	....	160	Quincké	P. A., 138, 141	vii., 243
Phycic acid	"	"	150 d.	136	Lamy	J., 5, 675	
Podophylloquercetin	59.37 % C ; 4.01 % H	"	....	247-250	Podwissotsky	B., 15, 378	42, 977
Quercite, acid from	Composition unknown	"	....	102	Prunier	C. R., 84, 184	31, 450
" " ....	"	"	....	110	"	"	"
Quinetum ....	"	"	....	139	Blyth	....	33, 317
Quinone-like substance ....	"	"	....	66	Ador and Meyer	A., 159, 1	24, 826
Rosaniline, from	73 % C ; 5.4 % H	"	....	200	Liebermann	B., 6, 952	26, 1242
" acetate of above	68.25 % C ; 5.21 % H	"	....	156	"	B., 6, 953	"
Rose oil	Composition unknown	"	216	....	Gladstone	....	25, 12
Turmeric oil	"	"	280-290	....	Gajewsky	B., 5, 1103	26, 504
Wormseed oil	75.5 % C ; 11.75 % H	"	173-174	....	Faust and Homeyer	B., 7, 1427	28, 371
Xylite	Composition unknown	"	61.5	....	Weidmann and Schweitzer	A., 36, 305	
"	"	"	61-62	....	Völckel	J., 4, 499	
Yew tree, from ....	"	"	....	86-87	Amato & Capparello	G. I., 10, 349	38, 900

6. CHS.

Methylene sulphide	cf. $C_3H_6S_3$	CH_2S	....	a. 200	Husemann	A., 126, 294	iii., 1007
Methyl sulphhydrate	Me.SH	CH_4S	21	....	Gregory	A., 15, 239	iii., 992
Hydrogen carbosesqui-sulphide	....	$C_2H_2S_3$	....	100	Loew	Z. C. [2], 1, 723	vi., 410
Ethylidene sulphide	$CH_3.CHS$	C_2H_4S	205	95	Crafts	J. [1862], 431	vi., 608
Ethylene sulphide	$CH_2.S.CH_2$	"	200	112	"	A., 124, 110	ii., 583
" disulphide	$CH_2.S.S.CH_2$	$C_2H_4S_2$	....	b. 100	Löwig & Weidmann	P. A., 46, 84	"
" pentasulphide ....	....	$C_2H_4S_5$ (?)	....	b. 100	" "	"	"
Methyl sulphide	$(CH_3)_2S$	C_2H_6S	41	....	Regnault	A. C. [2], 71, 391	iii., 991
" "	"	"	37.1-37.5	....	....	J. p. [2], 17, 453	
Ethyl sulphhydrate (mercaptane)	Et.SH	"	62	....	Bunsen	....	ii., 547
" " "	"	"	61-63	....	Zeise	P. A., 31, 389	
" " "	"	"	36.2	....	Liebig	A., 11, 17	
" " "	"	"	36.2 36.8	....	Nasini	B., 15, 2881	
Ethylene disulphhydrate	HS. CH_2 . CH_2 .SH	$C_2H_6S_2$	146	....	Werner	J., 15, 424	
Methyl disulphide	Me.S.S.Me	"	116-118	....	Cahours	A. C. [3], 18, 157	iii., 991
" "	"	"	112.1	....	Pierre	C. R., 27, 213	
Ethylenic trisulphocarbonate	$C_2H_4.S.CS.S$	$C_3H_4S_3$	....	39.5	Husemann	A., 123, 83	v., 502
Allyl sulphhydrate	$CH_2:CH.CH_2.SH$	C_3H_6S	90	....	Hofmann & Cahours	A., 102, 292	i., 145
Thiacetone	See $C_6H_{12}S_2$	"					
Dimethylic trithiocarbonate	MeS.CS.SMe	$C_3H_6S_3$	200-205	....	Cahours	A. C. [3], 19, 163	v., 501
" " "	"	"	204-205	....	....	B. J., 27, 548	
Trimethylene sulphide ....	....	"	....	a. 200	Husemann	A., 126, 294	iii., 1007
" " "	....	"	....	216	Hofmann	B., 2, 155	
" " "	....	"	sb. 212	216	"	B., 3, 588	
" " "	....	"	....	217	Renouf	B., 13, 2174	
Propylsulphhydrate	$CH_3.CH_2.CH_2.SH$	C_3H_8S	67-68	....	Roemer	B., 6, 784	26, 1118 ; vii., 1014
Isopropyl sulphhydrate	$(CH_3)_2.CH.SH$	"	abt. 45	....	Henry	B., 2, 496	vi., 966
" " "	"	"	57-60	....	Claus and Keerl	B., 5, 660	vii., 1016 ; 25, 998
Methylethyl sulphide	Me.S.Et	"	58.8-59.5 (757)	....	Carius	A., 119, 315	ii., 549 ; vi., 598
" " "	"	"	65-66	....	Krüger	J. p. [2], 14, 206	31, 187

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylethyl sulphide	Me.S.Et	C ₃ H ₈ S	64	....	Clæsson	J. p. [3], 15, 174	32, 293
Thiophene	CH : CH.S.CH : CH	C ₄ H ₄ S	84 c.	Liquid	Meyer	B., 16, 1471	44, 1091
Diethylene disulphide	(C ₂ H ₄) ₂ S ₂	C ₄ H ₈ S ₂	199-200	111-112	Husemann	A., 126, 280	vi., 606
Butyl sulphhydrate	CH ₃ .CH ₂ .CH ₂ .CH ₂ .SH	C ₄ H ₁₀ S	97-98	Liquid	Grabowsky and Saytzeff	A., 171, 251	27, 565
Isobutyl sulphhydrate	Me ₂ CH.CH ₂ .SH	"	88	....	Hermann	A., 95, 256	v., 736
"	"	"	86.6-87.8 (754)	....	Nasini	B., 15, 2882	
Butyl sulphhydrate	CH ₃ .CH ₂ .CH(SH).CH ₃	"	84-85	Liquid	Reymann	B., 7, 1287	28, 141
Ethyl sulphide	Et ₂ S	"	73	....	Regnault	A. C. [2], 71, 387	ii., 545
"	"	"	81	....	Smith		
"	"	"	91	....	Gaube	J. [1867], 542	vi., 598
"	"	"	91	....	Pierre	C. R., 27, 213	
"	"	"	91.9 (755)	....	Beckmann	J. p. [2], 17, 451	
"	"	"	92.2-93 (754)	....	Nasini	B., 15, 2882	
" disulphide	Et.S.S.Et	C ₄ H ₁₀ S ₂	150-151	....	Otto	B., 13, 1289	
"	"	"	151	....	Morin	P. A., 48, 484	ii., 546
"	"	"	151	....	Ramsay	....	28, 688
"	"	"	152.8-153.4 (759)	....	Nasini	B., 15, 2882	
Dimeththioethane (ethylene dithiomethylate)	MeS.CH ₂ .CH ₂ .SMe	"	183	....	Ewerloff	B., 4, 716	24, 1189; vii., 491
Fusyl disulphide	C ₁₀ H ₁₈ S ₂ ?	C ₅ H ₉ S (?)	112	l. —18	Guthrie	12, 125	ii., 755
Amylene sulphide	....	C ₅ H ₁₀ S	130-150	Liquid	Grabowsky	A., 138, 169	vi., 1135
"	....	"	abt. 200	....	Guthrie	A., 121, 115	14, 136; vi., 121
Thioisovaleric aldehyde	CHMe ₂ .CH ₂ .CHS	C ₅ H ₁₀ S	114-115	Liquid	Barbaglia	B., 13, 1574	40, 34
"	polymer ?	"	....	69	Schroeder	B., 4, 403	24, 560; vii., 1195
Diethylic trithiocarbonate	EtS.CS.SEt	C ₅ H ₁₀ S ₃	240	....	Husemann	J. [1861], 344	v., 501
"	"	"	237-240	....	Schweitzer	J. p., 32, 254	"
"	"	"	237-240	....	Debus	A., 75, 147	
"	"	"	240	....	Salomon	J. p. [2], 6, 433	26, 620
Isomyl sulphhydrate	CHMe ₂ .CH ₂ .CH ₂ .SH	C ₅ H ₁₂ S	abt. 120	....	Kreutzsch	J. p., 31, 1	i., 205
"	"	"	125	....	Balard	A. C. [3], 12, 305	
"	"	"	117	....	Krutsch	J. P., 31, 2	
"	"	"	119.8	....	Kopp	A., 95, 346	
"	"	"	116.6-118 (763)	....	Nasini	B., 15, 2883	
Dieththiomethane	EtS.CH ₂ .SEt	C ₅ H ₁₂ S ₂	184	....	Clæsson	J. p. [2], 15, 176	32, 293
Phenylene sulphide	C ₆ H ₄ :S	C ₆ H ₄ S	....	159	Stenhouse	P. R. S., 17, 62	vi., 922
Phenyl sulphhydrate (thiophenol)	C ₆ H ₅ .SH	C ₆ H ₆ S	abt. 165	....	Vogt	A., 119, 142	iv., 418
"	"	"	168.5	....	Schmidt	B., 11, 1174	34, 975
"	"	"	172.5	Liquid	Stenhouse	P. R. S., 17, 62; A., 149, 258	vi., 919
"	"	"	170-173	Liquid	Otto	A., 143, 211	"
"	"	"	170-173	....	Friedel and Crafts	C. R., 26, 884	34, 670
Dithioresorcinol	C ₆ H ₄ (SH) ₂ =1.3	C ₆ H ₆ S ₂	245	27.1	Körner and Mouselise	G. I., 6, 133; J. [1876], 450	31, 81
"	"	"	243	27	Pazschke	J. p. [2], 2, 418	vii., 1156
"	"	"	....	27	Gabriel	B., 10, 184	32, 325
Dithioquinol	" =1.4	"	....	98	Körner and Mouselise	G. I., 6, 133; B., 9, 584	31, 81
Allyl sulphide	(CH ₂ :CH.CH ₂) ₂ S	C ₆ H ₁₀ S	140	....	Wertheim	A., 51, 295; 55, 297	i., 144
"	"	"	140	....	Tollens	B. S. [2], 11, 397	vi., 91
" trisulphide	(CH ₂ :CH.CH ₂) ₂ S ₃	C ₆ H ₁₀ S ₃	188	....	Lowig	J., 13, 399	ii., 536
Duplothiacetone	....	C ₆ H ₁₂ S ₂	183=185 c.	Liquid	Wislicenus	Z. C. [2], 5, 324	vi., 1047
"	....	"	183-185	....	Spring	B. S., 40, 66	46, 580
"	....	"	180-185	....	"	B., 14, 760	
"	....	"	165-170	....	Claus	B., 8, 532	28, 881

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Trithioacetic aldehyde (a) ....	....	$C_6H_{12}S_3$	246-247	101	Klinger	B., 11, 1024	34, 720
" " " (β) ....	....	"	249	102	"	B., S., 38, 129	
" " " " ....	....	"	245-248	124-125	Klinger	B., 11, 1024	34, 720
" " " " ....	....	"	....	125-126	"	B., 9, 1894	32, 305
" " " " ....	....	"	145-150 (?)	123-124	"	B., 9, 1894	"
Hexylsulphhydrate	$CH_3.(CH_2)_4.CH_2.SH$	$C_6H_{14}S$	145-148	....	Pelouze & Cahours	C. R., 10, 1241 ; A., 124, 291	iii., 153
" " " "	Secondary	"	142 c.	....	Wanklyn and Erlenmeyer	J., 17, 509 ; A., 135, 150	iii., 154
Propyl sulphide	$Pr^a.S$	"	130-135	Liquid	Cahours	C. R., 76, 133	26, 365
Isopropyl sulphide	$Pr^β.S$	"	120-5	....	"	J. p. [2], 17, 459	
" " " "	"	"	105	....	Henry	B. [1869], 496	vi., 966
Propyldisulphide	$Pr^a.S.S.Pr^a$	$C_6H_{14}S_2$	192-5	....	Spring and Legros	B., 15, 1940	
Isopropyldisulphide	$Pr^β.S.S.Pr^β$	"	174-5	....	"	"
Dieththiomethane	$EtS.CH_2.CH_2.SET$	"	210-213	....	Ewerlof	B., 4, 717	24, 1189 ; vii., 491
γ-Thiobenzoic aldehyde	$=C_{14}H_{14}S_2 ?$	C_7H_6S	....	64	Cahours	A. C. [3], 23, 129 ; A., 70, 40	i., 577 ; vi., 329
γ- " " "	cf. B. 15, 861	"	....	68-70	Fleischer	A., 140, 234	vi., 329
γ- " " " ....	"	"	....	69-70	Klinger	B., 15, 862	
γ- " " " ....	"	"	....	70-71	Böttinger	B., 12, 1054	
α- " " " ....	....	"	d. 80-85	80-95	Klinger	B., 15, 861	
α- " " " ....	....	"	d. 90-95	78-80	Fleischer	A., 140, 234	
α- " " " ....	....	"	d. 83-85	....	Klinger	B., 9, 1895	
α- " " " ....	....	"	....	90-95	Laurent	A. C. [3], 1, 291	i., 571
β- " " " ....	....	( " )_a	....	224	Böttinger	B., 12, 1057	
β- " " " ....	....	"	....	225-226	Klinger	B., 9, 1896	32, 306
β- " " " ....	....	"	....	225-226	"	B., 10, 1877 ; 15, 864	34, 132
Benzyl sulphhydrate	$C_6H_5.CH_2.SH$	C_7H_8S	194-195	....	Märcker	A., 136, 75	v., 858
Tolylsulphhydrate(thiocresol) ..	$C_6H_4.CH_3.SH = 1.3 (?)$	"	187-188	b.-10	Hübner & Wallach	Z. C. [2], 5, 500	
" " " "	" " " "	"	188	abt. 2	"	"	vi., 291
" " " "	$C_6H_4.CH_3.SH = 1.2$	"	188	15	"	A., 169, 30	
" " " "	" " " " = 1.4	"	188	43	Märcker	A., 136, 79	"
Tolyldisulphhydrate (thio- orcinal)	$C_6H_3.Me(SH)_2 = ?$	$C_7H_8S_2$	....	34-5-35	Gabriel	B., 12, 1640	
Triallylic trithiocarbonate	$(CH_2.CH.CH_2)_2CS_3$	$C_7H_{10}S_3$	170-175	....	Husemann	A., 126, 297	v., 496
Heptyl sulphhydrate	$C_7H_{15}.SH$	$C_7H_{16}S$	155-158	....	Schorlemmer	16, 216	iii., 147
Amylethyl sulphide	$C_5H_{11}.S.C_2H_5$	"	132-133-5 c. (758)	Liquid	Carius	A., 119, 315	ii., 548 ; vi., 123, 599 ; 32, 293
" " " "	"	"	130-140	....	Linnemann	....	vi., 123
" " " "	"	"	158-159	....	Saytzeff	Z. C. [2], 6, 105 ; A., 139, 361	vi., 123, 599
Triethylic trithiorthoformate	$CH(SET)_3$	$C_7H_{16}S_3$	200-240 d.	Liquid	Gabriel	B., 10, 186	
Thioacetophenone	$C_6H_5.CS.CH_3$	C_8H_8S	....	119-5	Engler	B., 11, 931	36, 61
Xylenesulphhydrate(thioxyl- enol)	$C_6H_3.Me_2.SH$	$C_8H_{10}S$	213	....	Scheffer	Z. C. [1865], 360	v., 1059
Phenyl ethyl sulphide	$C_6H_5.S.C_2H_5$	"	204 (743-5)	Liquid	Beckmann	J. p. [2], 17, 457	36, 37
Butyl sulphide	$(CH_3.CH_2.CH_2.CH_2)_2S$	$C_8H_{18}S$	182	Liquid	Grabowsky and Saytzeff	A., 171, 253	27, 565
Isobutyl sulphide	$(CHMe_2.CH_2)_2S$	"	172-173	Liquid	"	A., 171, 256	"
" " " "	"	"	170-5	....	"	J. p. [2], 17, 445	
Butyl sulphide	$(CHMeEt)_2S$	"	165	....	Raymann	B., 7, 1288	28, 141
" " " " ....	....	"	176-185	....	Saytzeff	J., 19, 528	
Isobutyl disulphide	$(CHMe_2.CH_2)_2S_2$	$C_8H_{18}S_2$	220	....	Spring and Legros	B., 15, 1940	
Dithienyl methane	$CH_2(C_4H_3S)_2$	$C_9H_8S_2$	267	43	Peter	B., 17, 1345	46, 1001
Mesitylene sulphhydrate (thiomesitol)	$Me_3.SH = 1.3.5.6$	$C_9H_{12}S$	223-229	....	Holtmeyer	Z. C. [1867], 688	vi., 301
Pseudocumene sulphhydrate	" " " " = 1.2.4.5	"	....	85	Radloff	B., 11, 32	34, 414

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Pseudocumene sulphhydrate	$\text{Me}_3\text{SH} = 1.2.4.5$ (?)	$\text{C}_9\text{H}_{12}\text{S}$	<i>abt.</i> 235	86–87	Beilstein & Kögler	A., 137, 322	vi., 298, 515
Benzyl ethyl sulphide	$\text{C}_6\text{H}_5\text{CH}_2\text{S.Et.}$	"	214–216	Liquid	Märcker	A., 140, 88	vi., 336, 599
Tolyethyl sulphide	$\text{C}_6\text{H}_4\text{Me.SEt} = 1.4$	"	220–221	Liquid	Otto	B., 13, 1277	38, 811
Di-isobutylic trithiocarbonate	$(\text{CHMe}_2\text{CH}_2)_2\text{CS}_3$	$\text{C}_9\text{H}_{18}\text{S}_3$	285–289	....	Mylius	B., 6, 315	26, 873
Thio- α -naphthol	$\text{C}_{10}\text{H}_7\text{SH.}$	$\text{C}_{10}\text{H}_8\text{S}$	285	Liquid	Schertel	A., 132, 91	v., 1093
" "	"	"	....	Liquid	Liebermann	A., 183, 225	31, 608
Thio- β -naphthol	"	"	....	75	Billeter	B., 8, 463	
" "	$= \text{C}_{20}\text{H}_{14}\text{S}_2$ ?	"	....	136	Maikopar	Z. C. [1869], 710	
" "	"	"	....	137	Liebermann	A., 183, 225	31, 608
Cymene sulphhydrate (thio-carvacrol)	$\text{Pr}^2\text{Me.SH.} = 1.4.5$	$\text{C}_{10}\text{H}_{14}\text{S}$	235–236	Liquid	Raderburg	B., 6, 669	vii., 421
" " "	" "	"	235–236	Liquid	Flesch	B., 6, 479	26, 1029
" " "	" "	"	233–235	Liquid	Fittica	B., 6, 935	26, 1227
" " "	" "	"	235	....	Wright	....	27, 2
" " "	" "	"	233–240	....	Wright	....	27, 321
" " "	" "	"	233	....	Bechler	J. p. [2], 8, 168	27, 472
" " (thiothymol)	" $= 1.4.6$	"	230–231	1.–20	Fittica	A., 172, 303	28, 59, 60
Fusyl disulphide	....	$\text{C}_{10}\text{H}_{18}\text{S}_2$ (?)	112	1.–18	Guthrie	A., 113, 287	12, 125; ii., 755
Tetraeththioethylene	$\text{C}_2(\text{SEt})_4$	$\text{C}_{10}\text{H}_{20}\text{S}_4$	....	54	Claesson	J. p. [2], 15, 213	32, 296
Isoamyl sulphide	$\text{C}_5\text{H}_{11}\text{S.C}_5\text{H}_{11}$	$\text{C}_{10}\text{H}_{22}\text{S}$	216	....	Balard	A. C. [3], 12, 248	i., 205
" " "	"	"	214.2–215 (754)	....	Nasini	B., 15, 2883	"
" disulphide	$\text{C}_5\text{H}_{11}\text{S.S.C}_5\text{H}_{11}$	$\text{C}_{10}\text{H}_{22}\text{S}_2$	240–260	....	Henry	A. C. [3], 25, 249	"
" " "	"	"	250	....	Spring and Legros	B., 15, 1940	
Phenylthienylmethane	$\text{CH}_2\text{Ph}(\text{C}_4\text{H}_9\text{S})$	$\text{C}_{11}\text{H}_{10}\text{S}$	265 c.	Liquid	Peter	B., 17, 1346	46, 1002
Meththiocymene	$\text{C}_6\text{H}_5\text{Pr.Me.SMe}$	$\text{C}_{11}\text{H}_{16}\text{S}$	244	....	Bechler	J. p. [2], 8, 167	27, 473
Diisoamyl trithiocarbonate	$(\text{C}_5\text{H}_{11})_2\text{CS}_3$	$\text{C}_{11}\text{H}_{22}\text{S}_3$	245–248	....	Hüsemann	A., 126, 297	v., 497
Diphenylene sulphide	$\text{C}_6\text{H}_4\text{S.C}_6\text{H}_4$	$\text{C}_{12}\text{H}_8\text{S}$	....	94	Stenhouse	A., 156, 333	
" " "	"	"	332–333 c.	97	Græbe	B., 7, 51, 1630 ; A., 174, 185	27, 469 ; 28, 275, 455
" disulphide	$\text{C}_6\text{H}_4\text{S.S.C}_6\text{H}_4$	$\text{C}_{12}\text{H}_8\text{S}_2$	<i>abt.</i> 360	153	"	B., 7, 52	27, 469
" " "	"	"	<i>abt.</i> 360	154–155	"	A., 179, 178	29, 578
" " "	"	"	....	156–157	Schmidt	B., 11, 1174	34, 975
Phenyl sulphide	$\text{C}_6\text{H}_5\text{S.C}_6\text{H}_5$	$\text{C}_{12}\text{H}_{10}\text{S}$	288	....	Friedel and Crafts	C. R., 86, 884	34, 670
" " "	"	"	290	....	Krafft	B., 7, 385	
" " "	"	"	291	....	Græbe and Mann	B., 15, 1683	42, 1295
" " "	"	"	292.5	....	Stenhouse	P. R. S., 14, 351	iv., 417
" " "	"	"	292.5	....	Græbe	A., 174, 185	28, 454
" " "	"	"	293	....	Schmidt	B., 11, 1174	34, 975
Diphenyl sulphhydrate	$\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{SH}$	"	....	110–111	Gabriel and Deutsch	B., 13, 386	38, 476
Phenyl disulphide	$\text{C}_6\text{H}_5\text{S.S.C}_6\text{H}_5$	$\text{C}_{12}\text{H}_{10}\text{S}_2$	....	59–60	Otto	B., 15, 129	
" " "	"	"	....	60	Vogt	A., 119, 142	iv., 418
" " "	"	"	....	60	Dreher and Otto	A., 154, 178	vii., 942
" " "	"	"	....	60–61	Schmidt	B., 11, 1174	34, 975
" " "	"	"	....	61	Stenhouse	P. R. S., 17, 62	vi., 919
" " "	"	"	....	61	Gabriel	B., 10, 185	32, 311
" " "	"	"	310	....	Richter	R. K. T.	
Diphenyl disulphhydrate	$\text{C}_{12}\text{H}_8(\text{SH})_2$	"	....	176	Gabriel and Deutsch	B., 13, 390	38, 477
Hexylene sulphide	....	$\text{C}_{12}\text{H}_{22}\text{S}$	168–170	....	Destrem	B., 16, 229	
Hexyl " (a)	$\text{C}_6\text{H}_{13}\text{S.C}_6\text{H}_{13}$	$\text{C}_{12}\text{H}_{26}\text{S}$	230	....	Pelouze & Cahours	A., 124, 291 ; C. R., 10, 1241	iii., 153
Diamthioethane	$(\text{C}_5\text{H}_{11})\text{S.CH}_2\text{CH}_2\text{S}(\text{C}_5\text{H}_{11})$	$\text{C}_{12}\text{H}_{26}\text{S}_2$	245–255	....	Ewerlöf	B., 4, 717	24, 1189; vii., 491
H_2S on ethylidene sulphide	....	$\text{C}_{12}\text{H}_{26}\text{S}_7$	180	....	Weidenbusch	A., 66, 346	vi., 608
Thiobenzophenone	$\text{C}_6\text{H}_5\text{CS.C}_6\text{H}_5$	$\text{C}_{13}\text{H}_{10}\text{S}$	....	152–153	Behr	B., 5, 970	26, 276
"	"	"	....	146.5	Engler	B., 11, 924	36, 61
Tolallyl sulphide	....	$\text{C}_{14}\text{H}_{16}\text{S}$	....	208	Limpricht	A., 167, 188	
Tolallyldisulphide	....	$\text{C}_{14}\text{H}_{18}\text{S}_2$	....	208	"	A., 167, 187 ; B., 6, 534	26, 1032
Tolallyl hydrosulphide	$(\text{C}_7\text{H}_5)_2\text{S.}$	$\text{C}_{14}\text{H}_{10}\text{S}$	....	144	Märcker	A., 136, 75	v., 851
" "	....	"	....	143–144	Limpricht	B., 6, 534 ; A., 167, 192	26, 1033

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tolallyl hydrosulphide	.... $(C_7H_6)_2S$	$C_{14}H_{10}S$	....	143-145	Forst	A., 178, 370	29, 394
" "	....	"	350-360	172-173	"	"	"
Stilbene sulphide	.... $Ph.CH.CHPh.S$	$C_{14}H_{12}S$	....	168-169	Barbier	A. C. [5], 7, 472	31, 77
Benzyl sulphide	.... $(C_6H_5.CH_2)_2S$	$C_{14}H_{14}S$	....	49-50	Märcker	A., 136, 75	v., 859
" "	....	"	....	49-50	Otto and Lüders	B., 13, 1284	
Tolyl sulphide	.... $(CH_3.C_6H_4)_2S=(1.4)_2$	"	a. 300	56-57	Otto	B., 12, 1176	36, 926
" "	....	"	....	42	Otto and Gruber	A., 149, 101	"
Benzyl sulphide	.... $(C_6H_5.CH_2)_2S$	"	....	49	Märcker and Forst	A., 136, 88 ; 140, 87 ; A., 178, 371	
" disulphide	.... $(C_6H_5.CH_2)_2S_2$	$C_{14}H_{14}S_2$	cf. C_7H_6S	66-67	Märcker	A., 136, 86	v., 859
" "	....	"	....	66-67	Otto and Lüders	B., 13, 1284	
" "	....	"	....	67	Böttiger	B., 12, 1055	
" "	....	"	....	69-70	Klinger	B., 15, 863	
Tolyl disulphide	.... $(Me.C_6H_4)_2S_2=(1.4)_2$	"	....	41	Märcker	A., 136, 88	v., 859
" "	....	"	....	43	Beckurts and Otto	B., 11, 2066	36, 230
" "	.... $= (1.3)_2$	"	abt. 150 d.	1.-12	Hübner and Post	A., 169, 51	vii., 1170 ; 27, 60
" "	....	"	abt. 150 p.d.	Liquid	Hübner & Müller	Z. C. [2], 7, 14	24, 121
Diphenithioethane	.... $PhS.CH_2.CH_2.SPh$	"	....	65	Ewerlof	B., 4, 717	vii., 491
? .....	.... $C_{16}H_{16}S_2$?	$C_{16}H_{14}S$	....	150-151	....	A., 216, 328	
Distyrolene sulphide	....	$C_{16}H_{16}S$	....	150-151	....	J. [1880], 404	
Cetyl sulphhydrate	.... $C_{16}H_{33}.SH$	$C_{16}H_{34}S$	....	50.5	Fridau	A., 83, 18	i., 842
Octyl sulphide	.... $(C_8H_{17})_2S$	"	a. 310 d.	Liquid	Möslinger	B., 9, 1003 ; A., 185, 59	30, 394
Phenyldiphenylene sulphide	.... $Ph.C_6H_4.S.C_6H_4$	$C_{16}H_{12}S$	....	97	Græbe	A., 174, 177	28, 275
Mesityl disulphide	.... $(Me_3.C_6H_2)_2S_2=(1.3.5.6)_2$	$C_{15}H_{22}S_2$	....	125	Holtmeyer	Z. C. [1867], 688	vi., 301
Pseudocumyl disulphide	.... $= (1.3.4.?)_2$	"	....	115	Rudloff	B., 11, 32	34, 414
Triphenylic orthothioformate	.... $CH.(SPh)_3$	$C_{19}H_{16}S_3$	....	39.5	Gabriel	B., 10, 185	32, 311
α -Naphthyl sulphide	.... $(C_{10}H_7)_2S$	$C_{20}H_{14}S$	....	abt. 100	Armstrong	B., 7, 407	vii., 844 ; 27, 803
β- " "	....	"	....	a. 100	"	"	"
α -Naphthyl disulphide	.... $(C_{10}H_7)_2S_2$	$C_{20}H_{14}S_2$	....	85	Schertel	A., 132, 94	v., 1093
β- " "	....	"	....	132	Billeter	B., 8, 463	
β- " "	....	"	....	136	Maikopar	Z. C. [1869], 711	
Tribenzylie orthothioformate	.... $CH(S.CH_2Ph)_3$	$C_{29}H_{22}S_3$	....	98	Dennstedt	B., 11, 2265	36, 318
Diphenyl sulphide	.... $(Ph.C_6H_4)_2S$	$C_{24}H_{18}S$	....	171-172	Gabriel & Deutsch	B., 13, 387	38, 476
" disulphide	.... $(Ph.C_6H_4)_2S_2$	$C_{24}H_{18}S_2$	....	148-150	" "	"	38, 477
Diphenylmethane disulphide	.... $(Ph_2CH)_2S_2$	$C_{26}H_{22}S_2$	....	151	Engler	B., 11, 925	36, 61
Thionessal (thiolepidene)	.... $CPh.CPh : CPh.CPh.S$	$C_{28}H_{20}S$	....	178	Laurent	A. C. [3], 1, 292	v., 779
" "	....	"	....	180	Märcker and Forst	A., 136, 94 ; A., 178, 376	v., 859
" "	....	"	....	180	Fleischer	A., 164, 192	vi., 1087
Ditolallyl disulphide (dithiolepidene)	....	$C_{28}H_{20}S_2$	350-360	172-173	....	A.	
Mericyl sulphhydrate	.... $C_{30}H_{61}.SH$	$C_{30}H_{62}S$	....	94.5	Pieverling	A., 183, 349	31, 586
Cetyl sulphide	.... $(C_{16}H_{33})_2S$	$C_{32}H_{66}S$	....	57.5	Fridau	A., 83, 16	i., 842

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Gloxaline (<i>cf.</i> B., 15, 2410)	$\text{CH}:\text{CH}.\text{NH}.\text{CH}:\text{N}$	$\text{C}_3\text{H}_4\text{N}_2$	255	....	Goldschmidt	B., 14, 1845	
" (<i>cf.</i> B., 16, 534, 747)	....	"	263	89-90	Wallach	B., 15, 645	
"	$\text{NH}:\text{CH}.\text{CH}.\text{CH}:\text{N} (?)$	"	255 u. c.	88-89	Wyss	B., 9, 1543	31, 299
Propionitril (ethylic cyanide)	$\text{C}_2\text{H}_5.\text{CN}$	$\text{C}_3\text{H}_5\text{N}$	88.5	....	Gautier	A., 150, 189	vi., 524
" " "	"	"	96.7	....	"	J., 21, 631	
" " "	"	"	97	....	Ramsay	....	35, 472
" " "	"	"	97.08 c. (751.6)	Liquid	Thorpe	....	37, 205
" " "	"	"	97-98	....	Limpricht	J., 9, 514	
" " "	"	"	98.1 c.	....	Engler	A., 133, 153	
" " "	"	"	97.6-98	....	"	A., 142, 65	37, 205
" " "	"	"	98	....	Grimm		
" " "	"	"	96	....	Frankland and Graham	....	37, 741
Ethyl carbamine (ethylic isocyanide,	$\text{C}_2\text{H}_5.\text{NC}$	"	78-79; 78-80	l. — 68	Gautier	J., 20, 367	vi., 529
" " "	"	"	82	....	Pelouze	A., 10, 249	ii., 211
" " "	"	"	88	....	Frankland & Kolbe	J., 1, 552	"
Guanamine ....	....	$\text{C}_3\text{H}_5\text{N}_5$	....	265 u. c.	Nencki	B., 7, 1584; C. C. [1875], 51	28, 1202
Formoguanamine ....	....	"	....	n. f. 350	"	"	28, 755
Allylamine	$\text{CH}_2:\text{CH}.\text{CH}_2.\text{NH}_2$	$\text{C}_3\text{H}_7\text{N}$	58	....	Oeser	A., 134, 9	vi., 95
"	"	"	60	....	Liebermann & Paal	B., 16, 530	
Trimethylamine	$\text{N}(\text{CH}_3)_3$	$\text{C}_3\text{H}_9\text{N}$	9	....	Hofmann	4, 304	iii., 998
"	"	"	8	Liquid	Vincent	B. S. [2], 27, 150	32, 380
Propylamine	$\text{CH}_3.\text{CH}_2.\text{CH}_2.\text{NH}_2$	"	49-50 (761)	....	Silva	Z. C. [2], 5, 638	vi., 966
"	"	"	49	....	Linnemann	A., 162, 3	vii., 223
"	"	"	46-46.5	....	"	A., 161, 44	25, 236, 477
"	"	"	= 49 c.	....		
"	"	"	49.7	....	Mendius	A., 121, 136	v., 891
"	"	"	47-48	....	Hofmann	B., 15, 769	
Isopropylamine	$(\text{CH}_3)_2\text{CH}.\text{NH}_2$	"	31.5-32.5	....	Gautier	C. R., 67, 723	vi., 966
"	"	"	31.5 (743)	....	Siersch	Z. C. [2], 5, 145	vi., 967
"	"	"	31-32	....	Hofmann	B., 15, 769	
Propylene diamine	$\text{C}_3\text{H}_6(\text{NH}_2)_2$	$\text{C}_3\text{H}_{10}\text{N}_2$	119-120	....	"	B., 6, 308	28, 881; vii., 1021
Ethylenic dicyanide	$\text{NC}.\text{CH}_2.\text{CH}_2.\text{CN}$	$\text{C}_4\text{H}_4\text{N}_2$	....	37	Simpson	P. R. S., 10, 574	
" " ....	"	"	....	37.8	Moore	B., 4, 521; A. J. S. [3], 3, 177	24, 701; 25, 485; vii., 10
" " ....	"	"	....	50	Geuther	A., 120, 268	ii., 212
" "	"	"	140-160 (4 to 5)	54.5	Nevolé and Tscherniak	C. R., 86, 1411; B. S., 30, 101	34, 964
" "	"	"	158-160 (20)	....	Pinner	B., 16, 360	
Allylic cyanide (α -croton-isonitril)	$\text{CH}_2:\text{CH}.\text{CH}_2.\text{CN}$	$\text{C}_4\text{H}_5\text{N}$	96-106	....	Lieke	A., 112, 316	ii., 203
" " (α -croton-nitril)	$\text{CH}_3.\text{CH}:\text{CH}.\text{CN}$	"	115-117	....	Kekulé and Rinne	B., 6, 388	
" " "	"	"	112-120	....	Pinner	B., 12, 2054	
" " "	"	"	118 c.	....	Will and Körner	J., 16, 499; A., 125, 273	iii., 1075; vi., 525
" " "	"	"	118.7-119.2 c.	....	Rinne and Tollens	Z. C. [2], 7, 251	vii., 49, 25, 1021
Pyrroline (pyrrol)	$\text{CH}:\text{CH}.\text{CH}:\text{CH}.\text{NH}$	"	126.2 (746.5)	....	Weidel & Ciamician	B., 13, 70	38, 404
" "	"	"	127	....	"	W. A., 81, 572	40, 295
" "	"	"	133	....	Anderson	J., 10, 399	iv., 783
" "	"	"	133	....	Ramsay	....	35, 472
" "	"	"	133	....	Niederstadt	C. C. [1873], 154	27, 499
" "	"	"	133	....	Bell	B., 10, 1810, 1868	38, 525
" "	"	"	133	....	Weidel & Ciamician	B., 13, 70	38, 404

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Pyrroline (pyrrol) <i>cf.</i> B. 14, 1160	$\boxed{\text{CH}:\text{CH}:\text{CH}:\text{CH}:\text{NH}}$	$\text{C}_4\text{H}_5\text{N}$	133	....	Schiff	B., 10, 1501	34, 216
Methylglyoxaline (oxal-methylene)	$\text{MeN}:\text{C}:\text{CH}_2\text{N}:\text{CH}$	$\text{C}_4\text{H}_6\text{N}_2$	195	Liquid	Goldschmidt	B., 14, 1846	42, 166
" "	"	"	197-198	Liquid	Wallach & Schulze	B., 14, 422	40, 572
" "	"	"	197-199	Liquid	Wallach	B., 15, 644	42, 821
Paramethylglyoxaline (glyoxalethyline)	$\text{N}:\text{CH}:\text{C}:\text{NEt}$	"	267	136	Wallach & Schulze	B., 14, 425-427	40, 572
" "	$\text{NH}:\text{C}:\text{CH}_2\text{CH}_2\text{N}:\text{CH}$ or $\text{NH}:\text{C}:\text{CHMe}:\text{N}:\text{CH}$	"	....	136	Wallach	B., 15, 644; A., 214, 297	44, 49
" "	$\text{CH}:\text{N}:\text{CHMe}:\text{N}:\text{CH}$	"	....	136	"	B., 16, 542	
" "	"	"	266-268	137	Radziszewsky	B., 15, 2707	44, 308
" "	"	"	260-270	Crystalline	"	B., 16, 487	44, 728
Allylcyanamide (sinamine)	$\text{C}_{12}\text{H}_{18}\text{N}_6$ ?	"	....	100	....	A., 52, 15	
Butyro-nitril	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CN}$	$\text{C}_4\text{H}_7\text{N}$	118.5	....	Dumas	A., 64, 334	i., 698
"	"	"	116.3	....	Rossi	C. R., 70, 129	vi., 964
"	"	"	115-117 (744)	....	Linnemann & Zotta	A., 162, 12	vii., 222; 25, 475
Isobutyro-nitril	$\text{Me}_2\text{CH}:\text{CN}$	"	107-108	....	Letts	B., 5, 671	
"	"	"	80	....	Markownikoff	B. S. [1866], 53	vi., 525
"	"	"	80	....	Erlenmeyer	....	v., 890
Isopropyl carbamine (isocyanide)	$\text{Me}_2\text{CH}:\text{NC}$	"	87	1. -68	Gautier	C. R., 67, 723	vi., 530
Hydropyrroline	$\text{C}_4\text{H}_6:\text{NH}$	"	90-91 c.	Liquid	Ciamigian and Dennstedt	B., 15, 1172; 15, 1831; 16, 1536	42, 1214; 44, 82, 1142
Base	$\text{MeCH}:\text{CMe}:\text{N}$	"	189	88	Gutknecht	B., 13, 1116	38, 712
Acetoguanamine	$\text{CH}_2\text{NH}(\text{C}:\text{NH})_3\text{NH} (?)$	$\text{C}_4\text{H}_7\text{N}_5$	....	265 u. c.	Nencki	B., 7, 775, 1585	
Ethyldicyandiamide....	....	$\text{C}_4\text{H}_8\text{N}_4$	300	....	Cloez and Cannizzaro	A., 78, 228; 90, 96	ii., 190
Crotylamine	$\text{C}_4\text{H}_7\text{NH}_2$	$\text{C}_4\text{H}_9\text{N}$	75-80	....	Hofmann	B., 12, 992	36, 712
Diethylene diamine	$(\text{C}_2\text{H}_4)_2\text{N}_2\text{H}_2$	$\text{C}_4\text{H}_{10}\text{N}_2$	170	....	....	....	ii., 586
Diethylamine	NHEt_2	$\text{C}_4\text{H}_{11}\text{N}$	55.5 (759)	....	Oudemans	B., 16, 390	
"	"	"	57	....	Hofmann	J., 4, 489	ii., 559
"	"	"	v. t. 10° (120)	....	Isambert	C. R., 96, 708	44, 727
"	"	"	220 c. t. (38.7 ats.)	....	Dewar	C. N., 51, 29	
"	"	"	320 c. t.	....	Dewar and Scott	P. R. S., 35, 347	45, 139
Butylamine	$\text{Me}(\text{CH}_2)_3\text{NH}_2$	"	75.5 (740)	....	Lieben and Rossi	A., 158, 172	vii., 222; 24, 522
"	"	"	76.5	....	Linnemann	A., 162, 3	vii., 223
"	"	"	76-77	....	Linnemann & Zotta	A., 162, 12	25, 475; vii., 222
Isobutylamine	$\text{Me}_2\text{CH}:\text{CH}_2\text{NH}_2$	"	69-70	....	Wurtz	A., 93, 124	v., 737
"	"	"	67.5	....	Linnemann	A., 162, 3	vii., 223
"	"	"	65.8-68.3 (743)	....	"	A., 162, 12	25, 477; 34, 849; vii., 222
"	"	"	65-67	....	Hofmann	B., 15, 769	42, 1054
"	"	"	65.5	....	"	B., 7, 511	27, 792
"	"	"	62-65	....	Reimer	Z. C. [2], 7, 26	24, 121
"	"	"	62-65	....	Hofmann & Reimer	B., 3, 756	vii., 222
Butylamine	$\text{CH}_3\text{CH}_2\text{CHMe}:\text{NH}_2$	"	63	....	Hofmann	B., 7, 510	27, 792
"	"	"	63	....	Reymann	B., 7, 1289	28, 141
"	Me_3CNH_2	"	45-46; 46	....	Linnemann	A., 162, 19	vii., 223; 25, 477
"	"	"	46.4 c.	....	Brauner	A., 192, 65	34, 779
"	"	"	45 (760)	....	Rudneff	B., 11, 988	36, 40
"	"	"	44.5 (745.7 r)	Liquid	"	B., 12, 1023	36, 713
"	"	"	45	....	"	B. S. [2], 33, 297	38, 545
Petinine	"	70.5	Anderson	A.	v., 737
Diethylhydrazine	NEt_2NH_2	$\text{C}_4\text{H}_{12}\text{N}_2$	96-99	A., 199, 308	

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Butylene diamine	$C_4H_8(NH_2)_2$	$C_4H_{12}N_2$	a. 140	Fairlie	As., 3, 372	v., 739; 17, 362
Tetramethyl tetrazone	$Me_2N.N:N.N.Me_2$	$C_4H_{12}N_4$	abt. 130	Renouf	B., 13, 2173	40, 152
Diethylene triamine	$NH:(C_2H_4.NH_2)_2$	$C_4H_{13}N_3$	208	....	Hofmann	P. R. S., 10, 224	ii., 589
Butylene ,, ...	$C_4H_7(NH_2)_3$	..	a. 150	....	Fairlie	As., 3, 373	v., 740; vii., 415; 16, 362
Ethenyl tricyanide	$C_2H_3(CN)_3$	$C_5H_3N_3$	....	42	Orlovsky	B. S. [2], 28, 348	34, 31
Pyridine + 3H ₂ O ....	....	C_5H_5N	92-93	....	Goldschmidt and Constam	B., 16, 2977	46, 611
,,	$CH:CH.CH:CH.CH:N$	..	115	....	Kissling	D. P., 244, 234	42, 1254
,, ....	..	..	115	....	Richard	B. S. [2], 32, 486	38, 480
,, ....	..	..	115	....	Thenius	J., 14, 502	
,, ....	..	..	116	....	Grimaux	C. R., 95, 85	42, 1216
,, ....	..	..	116.5	....	Church and Owen	J., 13, 359	
,, ....	..	..	115-116	....	Vohl & Eulenberg	A. P. [2], 147, 130	24, 1077
,, ....	..	..	116.7	....	Anderson	A., 96, 200	
,, ....	..	..	117	....	....	....	iv., 755
,, ....	..	..	117	....	Ramsay	....	35, 472
,, ....	..	..	115-122	....	Weidel	A., 165, 328	26, 508
,, ....	..	..	120	....	Weidel and Hazara	M. C., 3, 770	44, 223
,, ....	..	..	120	....	Hantzsch	A., 215, 1	44, 85
β-Propylene dicyanide	$CH_3CH(CN).CH_2CN$	$C_5H_6N_2$	252-254	12	Pinner	B., 12, 2054	36, 99
,, ,, ....	..	..	255-263 c.	....	....	A., 121, 160; 182, 327	
,, ,, ....	..	..	277-290	....	Simpson	....	v., 893
Methyl pyrroline	$CH:CH.CH:CH.NMe$	C_5H_7N	112-113	Liquid	Bell	B., 10, 1866	36, 525
α-Homopyrroline	$C_4H_3Me:NH$	..	145.5 (742.8)	Liquid	Weidel & Ciamician	B., 13, 77	38, 404
α- ,, ....	..	..	145	....	..	W. A., 81, 512	40, 295
α- ,, ....	..	..	147-148 (750)	....	Ciamician	B., 14, 1057	
β- ,, ....	..	..	142-143 (742.7)	....	..	..
Paramethyl-methylglyoxaline (oxalmethylethylene)	$C_4H_5MeN_2$	$C_5H_8N_2$	205-206	Liquid	Radziszewski	B., 16, 488	44, 729
Ethylglyoxaline	$C_3H_3N:NEt$	..	209-210	Liquid	Wallach	B., 16, 535	44, 910
Paraethylglyoxaline (glyoxal-propylene)	$C_3H_2EtN:NH$	..	....	76-77	..	B., 16, 543	44, 911
,, ,, ....	..	..	268	79-80	Radziszewski	B., 16, 490	44, 729
Butylic cyanide (valeronitril)	$Me.(CH_2)_3CN$	C_5H_9N	140.4 (739.3)	....	Lieben and Rossi	A., 158, 171	24, 522; vii., 216
Isobutylic cyanide (isovaleronitril)	$CHMe_2.CH_2CN$	..	126-128 (714)	....	Erlenmeyer & Hill	A., 160, 257	25, 242
,, ,, ....	..	..	125-128	....	Gluckeberger	A., 64, 77	ii., 273
,, ,, ....	..	..	125	....	Schlieper	A., 59, 15	..
,, ,, ....	..	..	125-128	....	Letts	B., 5, 673	vii., 1200
Trimethyl acetonitril	CMe_3CN	..	105-106	15-16	Butlerow	A., 170, 156	27, 247
,, ,, ....	..	..	begins 105	....	Dobbin	....	37, 238
,, ,, ....	..	..	abt. 103	....	Butlerow	B., 5, 478	vii., 221; 26, 48, 1020
,, ,, ....	..	..	abt. 103	....	Butlerow and Gerainow	B. S. [2], 18, 124	25, 1092
Isobutylic isocyanide (isobutylcarbamine)	$CHMe_2.CH_2NC$	..	114-117	pasty -60	Gautier	A., 152, 221	vi., 530
Diethylecyanamide	NEt_2CN	$C_5H_{10}N_2$	190	....	Cloez & Cannizzaro	A., 78, 228	ii., 190
,, ,, ....	..	..	186 u. c.	....	Fileti and Schiff	B., 10, 428	32, 307
Ethylallylamine	$NHET.C_3H_5$	$C_5H_{11}N$	83-85	....	Rinne	A., 168, 261	27, 50
,, ,, ....	..	..	84-86	....	Liebermann & Paal	B., 16, 526	44, 909
,, ,, ....	..	..	81-88	....	Königs	B., 12, 2344	
α- ,, ....	..	..	85	....	Gal	C. R., 76, 1354	26, 1026
Piperidine	$CH_2(CH_2)_4NH$..	106	Cahours	A. C. [3], 38, 78	iv., 656
,,	106	Gal	C. R., 76, 1354	26, 1026

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Piperidine	$\text{CH}_2(\text{CH}_2)_4\text{NH}$	$\text{C}_5\text{H}_{11}\text{N}$	106	Rinne	A., 168, 261	27, 50
Tetramethylammonium cyanide	NMe_4CN	$\text{C}_5\text{H}_{12}\text{N}_2$	v. 225-230 w. m.	295	Claus and Merck	B., 16, 2743	46, 338
" "	"	"	v. 225-227 w. m.	....	Thompson	B., 16, 2338	46, 286
Piperyl hydrazine	$\text{C}_5\text{H}_{10}:\text{N.NH}_2$	"	145	Liquid	Knorr	B., 15, 859	42, 1115
" "	"	"	146	Liquid	"	A., 221, 297	46, 467
Amylamine	$\text{CH}_3(\text{CH}_2)_4\text{NH}_2$	$\text{C}_5\text{H}_{13}\text{N}$	103	Liquid	Hofmann	B., 15, 770	42, 1054
Isoamylamine	$\text{CHMe}_2\text{CH}_2\text{CH}_2\text{NH}_2$	"	95-96	....	"	B., 15, 771	"
"	"	"	95-96	....	Wurtz	A. C. [3], 30, 447	"
"	"	"	95	....	Silva	C. R., 64, 209	"
"	"	"	94	....	....	....	i., 207
"	"	"	93	....	Brazier and Gosleth	A., 75, 253	"
"	"	"	92-93	....	Custer	....	40, 33
"	"	"	92-93	....	Gantier and Etard	C. R., 97, 263	46, 90
" (inactive)	"	"	96-97 (766)	....	Plimpton	C. R., 91, 433	39, 332
" (active)	....	"	96-97	....	"	"	39, 334
Pseudo isoamylamine	$\text{CHMe}_2\text{CHMeNH}_2$	"	78.5	....	Wurtz	B. S. [2], 7, 243	vi., 116
"	"	"	78	....	Rudneff	B. S. [2], 33, 297	38, 546
Cespitine	=Amylamine ?	"	95	....	Church and Owen	J. [1860 & 1868]	v., 1088
Cyanpyridine....	$\text{C}_5\text{H}_4\text{N.CN}$	$\text{C}_6\text{H}_4\text{N}_2$	....	48-49	Fischer	B., 15, 63	42, 627
o-Amidazophenylene	$\text{H}_2\text{N.C}_6\text{H}_3\text{N}:\text{N}$	$\text{C}_6\text{H}_5\text{N}_3$	....	98.5	Ladenburg	B., 9, 222	29, 933
"	$\text{C}_5\text{H}_4\text{N.NH.N} = 1.2$	"	....	100	Griess	B., 15, 2195	"
Phenylamine (aniline)	$\text{C}_6\text{H}_5\text{NH}_2$	$\text{C}_6\text{H}_7\text{N}$	185	....	....	....	iii., 421
"	"	"	182	b. -20	Hofmann	A., 47, 50	iv., 421
"	"	"	183	....	Ramsay	....	35, 472
"	"	"	185-186	....	Schiff	A., 159, 158	24, 958
"	"	"	182	....	Hofmann & Martius	B., 4, 743	24, 1060
"	"	"	184	....	Heumann & Köchlin	B., 16, 603	44, 781
"	"	"	180	....	Heutschel	J. p., 27, 498	44, 1108
"	"	"	182-183	-8	Lucius	B., 5, 154	vii., 942; 25, 502
"	"	"	185	....	Brühl	B., 12, 204	36, 499
"	"	"	182.5	....	"	A., 200, 139	36, 296
"	"	"	183	....	Thorpe	....	37, 151
"	"	"	183.7 c. (733.2)	....	"	....	37, 221
"	"	"	184.8 (737.2)	....	Kopp	A.	"
"	"	"	184.5	....	Stædler and Arndt	J., 17, 425	"
"	"	"	183.5-184.5	....	Frankland	....	37, 561
a-Picoline (methylpyridine)	$\text{C}_5\text{H}_4\text{MeN}$	"	133.5 (760)	....	Thorpe	....	37, 223
a- "	"	"	133-135	....	Anderson	A., 60, 93	iv., 638
a- "	"	"	134	....	Thenius	J., 14, 502	"
a- "	"	"	134	....	Ramsay	....	35, 472
a- "	"	"	133.9 u. c.	....	Weidel	B., 12, 2008	36, 269
a- "	"	"	134-135	....	Vohland Eulenberg	A. P. [2], 147, 130	24, 1077
a- "	"	"	135	....	Church and Owen	J., 13, 359	iii., 421
a- "	"	"	135	....	Hantzsch	A., 215, 61	44, 85
a- "	"	"	135	....	Baeyer	....	"
a- "	"	"	135	....	Richard	B. S. [2], 32, 486	38, 480
a- "	"	"	135	....	Kissling	D. P., 244, 234	42, 1254
β- "	"	"	140.1	....	Weidel	B., 12, 2010	36, 269
β- "	"	"	144-146	....	Zanoni	B., 15, 528	"
γ- "	"	"	132-150	....	Richter	Tabellen	"
Parapicoline ....	....	"	260-315	....	Anderson	J., 10, 396	"
From propaldehyde ammonia	....	"	160	....	Waager	M. C., 4, 708	46, 173
Diamidobenzene (phenylene diamine)	$\text{C}_6\text{H}_4(\text{NH}_2)_2 = 1.4$	$\text{C}_6\text{H}_8\text{N}_2$	....	147	Ledoux	B., 7, 1531	"
"	"	"	267	140	Hofmann	P. R. S., 12, 639	iv., 481
"	"	"	....	140	Meyer and Stuber	A., 163, 161	26, 507
"	"	"	....	140	Griess	B., 11, 1731	36, 247

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diamidobenzene (phenylene diamine)	$C_6H_4(NH_2)_2=1.4$	$C_6H_8N_2$	....	140	Stöver	B., 7, 463	27, 806
"	"	"	....	140	"	B., 7, 1315	28, 271
"	"	"	....	140	Rinne and Zincké	B., 7, 871	27, 1163
"	"	"	....	140	Wurster	A., 173, 145	28, 758
"	"	"	....	140	Hübner	A., 208, 296	40, 1130
"	"	"	....	140	Nietzki	B., 11, 1098	
"	"	"	....	140	Griess	B., 7, 12, 1224	
"	"	"	....	140	"	B., 5, 201	
"	"	"	....	140	Hobrecker	B., 5, 920	
"	"	"	....	140	Körner	G. I., 4, 305	29, 234
"	"	"	....	139	Merz and Weith	B., 10, 762	32, 603
"	"	"	....	139	Fleischer & Nemes	B., 10, 1298	32, 886
"	"	"	Mixture ?	120	Hübner	A., 208, 278	40, 1131
"	"	"	....	102-103	....	A., 171, 63 ; 209, 260	
"	"	"	....	102	Stöver	B., 7, 1315	28, 271
"	"	"	....	99	Salkowski	A., 173, 58	vii., 925 ; 26, 72
"	"	"	250	99	"	B., 5, 724	25, 1024
"	"	"	....	99	Wurster	A., 173, 145	28, 757
"	"	"	....	99	Körner	G. I., 4, 305	29, 234
"	"	"	....	99	Ladenburg	B., 9, 221	29, 933
"	"	"	....	99	Zincké and Sintenis	B., 6, 123	26, 640
"	"	"	abt. 252	99	Griess	B., 5, 202, 855 ; P. R. S., 20, 168 ; J.p. [2], 3, 143	24, 562 ; 25, 499 ; 26, 178 ; vii., 137, 947, 1188
"	"	"	....	99	Rommier	B. S. [2], 18, 70	25, 1004
"	"	"	Mixture ?	86-87	Körner	G. I., 4, 305	29, 207
"	"	"	276-277 c. (760)	61-62	Zincké and Sintenis	B., 5, 792	
"	"	"	276	63	"	"	
"	"	"	270-276	63-64	Wurster	B., 7, 150	
"	"	"	....	64	"	A., 173, 145	28, 757
"	"	"	268-276	62-63	Wurster & Ambühl	B., 7, 214	27, 588
"	"	"	287	63	Hofmann	P. R. S., 12, 163 ; J. [1861], 512 ; [1863], 422	iv., 481 ; vii., 137, 947 ; 24, 562
"	"	"	....	63	Salkowski	A., 173, 39	28, 72
"	"	"	....	63	Griess	B., 7, 1225	28, 263
"	"	"	....	63	"	B., 11, 625	34, 605
"	"	"	....	63	Körner	G. I., 4, 305	29, 234
"	"	"	....	60	Limpricht	B., 8, 290	28, 766
"	"	"	....	60	Hübner	A., 222, 67	48, 315
Phenyl hydrazine	NHPh.NH ₂	"	233-234	23	Fischer	A., 190, 71	34, 303
Mannitine	....	"	170 (760)	....	Schichlone and Denaro	G. I., 12, 416 ; B., 16, 426	44, 51
Ketine	....	"	170-180	....	Treadwell & Steiger	B., 15, 1060	
Methylhydropyridine	$CH:CH.CH:CH.CH_2.NMe$	C_6H_9N	129	....	Hofmann	B., 14, 1499	40, 921
Ethylpyroline	$CH:CH.CH:CH.NEt$	"	131	Liquid	Bell	B., 9, 936	30, 630
"	"	"	131	....	"	B., 10, 1862	36, 525
"	"	"	131	....	"	B., 11, 1811	
"	"	"	155-175	....	Lubavin	Z. C. [2], 5, 399 ; B., 2, 201	36, 525 ; vi., 982
Dimethylpyrroline	$C_4H_5Me_2.NH$	"	165 (752)	Liquid	Weidel & Ciamician	B., 13, 78	38, 404
"	"	"	160-170	....	"	W. A., 81, 512	40, 295
α -Imidopropionitril	....	$C_6H_9N_3$	....	67-68	Urech	B., 6, 1115	27, 148
α-	....	"	....	68	Passavant	A., 200, 126	38, 313
Triamidobenzene	$C_6H_3(NH_2)_3=1.3.5$	"	....	....	....	A., 215, 349	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Triamidobenzene	$C_6H_3(NH_2)_3=1.2.3$	$C_6H_9N_3$	336 c.	103	Salkowski	A., 163, 23	25, 715; vii., 147
"	" "	"	abt. 300	103-104	"	B., 5, 23	25, 303
"	" =1.2.4	"	340	....	"	A., 174, 265	28, 367
"	" "	"	340	....	"	B., 6, 140	26, 639
"	" "	"	330	....	"	"	"
Kyanmethine....	....	"	sb.	180-181	Bayer	B., 2, 322	"
Paramethylethylglyoxaline (oxaethyline)	$C_3H_2MeN:NEt$	$C_6H_{10}N_2$	212-213	Liquid	Wallach & Stricker	B., 13, 512; A., 214, 298	38, 546
" "	"	"	212	Liquid	Radziszewski	B., 16, 489	44, 729
" "	"	"	212-213	....	Wallach	B., 15, 644	42, 821
" "	"	"	212.5	....	"	B., 14, 424	"
Propylglyoxaline	$C_3H_3N:NPr$	"	219-223	Liquid	"	B., 15, 650; A., 214, 321	"
Paraisopropylglyoxaline (glyoxalisobutyline)	$C_3H_2Pr^{\beta}N:NH$	"	240-265	129	Radziszewski	B., 16, 747	44, 1086
Ethylallylcyanamide (ethyl- sinamine)	$NEt(C_3H_5).CN$	"	....	100	....	A., 83, 348	v., 307
Isoamylic cyanide (capro- nitril)	$CHMe_2.CH_2.CH_2.CN$	$C_6H_{11}N$	155	....	....	A., 106, 284	"
" " "	"	"	146	....	Frankland & Kolbe	A., 65, 288; J., 1, 559	ii., 203
Ethylmethylacetoneitril	$CEtMe_2.CN$	"	130	s. f. m.	Wischnegradsky	B., 7, 730	27, 1083
" " "	"	"	128-130	....	"	A., 174, 56	"
Isoamylic isocyanide....	$CHMe_2.CH_2.CH_2.NC$	"	137	Liquid	Hofmann	A., 146, 109	vi., 530
Diallylamine	$NH(C_3H_5)_2$	"	111	....	Ladenburg	B., 14, 1879	"
Propylene guanamine	$Me.CH_2.CH:C_3N_3H_5$	$C_6H_{11}N_5$	sb. 210	230	Nencki	B., 9, 231	30, 187
Triethylenediamine	$(C_2H_5)_3.N_2$	$C_6H_{12}N_2$	abt. 210	....	Hofmann	P. R. S., 9, 154; J. [1858], 343	ii., 586
Hexamethylenetetramine ....	....	$C_6H_{12}N_4$	....	120-125	Bartoli & Papasogli	G. I., 13, 287	46, 170
" " "	....	"	sb. 100	....	....	A., 115, 324	"
Propylallylamine	$NHPr.C_3H_5$	$C_6H_{13}N$	110-114	....	Liebermann & Paal	B., 16, 526	44, 909
Methyl piperidine	$C_6H_{10}:NMe$	"	107	....	Hofmann	B., 14, 659	40, 621
" " "	....	"	118	....	Cahours	A. C. [3], 38, 92	iv., 657
" " "	$C_3H_5Me:NH$	"	122	....	Ladenburg	C. R., 98, 516	46, 760
" " "	"	"	121-124	....	"	B., 17, 388	46, 1054
Ethenyldiethylamidine	$NHEt.CMe:NEt$	$C_6H_{14}N_2$	165-168	Liquid	Wallach and Hofmann	A., 184, 116	32, 189
Triethylamine	NEt_3	$C_6H_{15}N$	89	....	....	J. [1862], 331; Z. C. [1866], 513	"
" " "	"	"	89.2	....	Brühl	A., 200, 185	38, 296
" " "	"	"	90.1; 267.1 c. t.	....	Pawlewski	B., 16, 2633	46, 252
" " "	"	"	90-91	....	Dewar and Scott	P. R. S., 35, 348	46, 258
Diisopropylamine	$NHPr_2^{\beta}$	"	83.5-84 (743)	....	Siersch	Z. C. [2], 5, 145; A., 148, 265	vi., 967
Hexylamine	$CH_3(CH_2)_5.NH_2$	"	128-130	....	Hofmann	B., 15, 771	42, 1054
" " "	"	"	125-128	....	Pelouze & Cahours	A., 124, 295; J., 16, 527	"
" " "	$CH_3.(CH_2)_3.CHMe.NH_2$	"	116	....	Uppenkamp	B., 8, 56	28, 552
" " "	"	"	114-117	....	Jahn	B., 15, 1292	"
" " "	$CMeEt_2.NH_2$	"	108-110	....	....	A., 185, 123	"
Triethylene triamine ....	....	$C_6H_{15}N_3$	216	....	Hofmann	P. R. S., 10, 224; J. [1861], 520	ii., 589
m-Diazobenzonitrilimide	$C_6H_3(CN)N_2:NH$	$C_7H_4N_4$	....	57	Griess	B., 2, 370	vii., 427
Phenyl isocyanide	$Ph.N:C$	C_7H_5N	160 pd.	Liquid	Hofmann	....	vi., 530
Benzonitril (phenylic cy- anide)	$C_6H_5.CN$	"	190.6 (733)	Liquid	Kopp	A.	i., 563
" " "	"	"	190-191	....	Fehling	A., 49, 91	"
" " "	"	"	192	....	Ramsay	....	35, 472
" " "	"	"	191	....	Weith	B., 6, 212-213	"
" " "	"	"	191	....	Merz and Weith	B., 10, 747	32, 602
" " "	"	"	....	— 17	Hofmann	G. J. C., 1862	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts Dict. & J. Ch. Soc.
Benzonitril (phenylic cyanide)	$C_6H_5.CN$	C_7H_5N	191	....	Henke	G. J. C., 1856	
" " "	"	"	190	....	Limpricht	A., 106, 284	
Phenylcarbamine (phenylic isocyanide)	$C_6H_5.NC$	"	167	....	....	A., 144, 117	
" " "	"	"	150-182	....	Weith	B., 6, 211	
Kyaphenin ....	....	$(C_7H_5N)_n$	....	229-230	....	A., 214, 211	
Cyananilide (phenylcyanamide)	$C_6H_5.NH.CN$	$C_7H_6N_2$	....	36	Cahours and Cloez	A., 90, 91	
" " "	....	"	....	36-37	Hofmann	B., 3, 267-268	
Methenyl phenylenediamine	$C_6H_4.NH.CH:N=1.2$	"	abt. 360	167	Wundt	B., 11, 827	34, 667
Amidobenzonitril	$C_6H_4.NH_2.CN=1.3$	"	288-290	52	Hofmann	Z. C. [2], 4, 726 ; B., 1, 196	vi., 527
" ....	" "	"	....	52-53	Fricke	B., 7, 1321	
" ....	" "	"	....	53	Griess	Z. C. [2], 4, 725 ; B., 1, 191	"
" ....	" "	"	....	54	"	B., 8, 861	
"	" =1.4 (?)	"	....	74	Engler	A., 149, 302	"
" ....	" "	"	....	86	Griess	B., 7, 861	29, 267
"	" =1.2	"	....	103	Hübner	B., 10, 1714	34, 140
"	" =1.4	"	....	110	Fricke	B., 7, 1322	28, 272
Indazole	$C_6H_4.CH.NH.N$ or $C_6H_4.CH:N.NH$	"	....	146.5	Fischer and Kuzel	A., 221, 261	46, 441
Anhydroformaldehydaniline	$Ph.N:CH_2$	C_7H_7N	....	d.w.m.	Tollens	B., 17, 653	46, 988
Parazotoluene (polymer)	See $C_{23}H_{26}N_4$	$(C_7H_7N)_n$	....	244-245	Barsilowsky	B., 6, 1209	27, 274
" " "	"	"	....	244	"	A., 207, 105, 118	40, 432
Amidazotoluylene (cf. B., 15, 1880)	$Me.NH_2.C_6H_4.N:N$	$C_7H_7N_3$	323	83	Ladenburg	B., 9, 220	29, 933
Benzimidoamide	$Ph.C(NH_2)_2:NH$	$C_7H_8N_2$	....	75-80	Pinner and Klein	B., 11, 6	34, 491
Benzylamine	$C_6H_5.CH_2.NH_2$	C_7H_9N	182-183	Liquid	Cannizzaro	A., 134, 128	v., 867
"	"	"	182-187.5	....	Mendius	A., 121, 144	
"	"	"	183	....	Limpricht	A., 144, 318	vi., 337
"	"	"	185	....	Strakosch	B., 5, 693	vii., 181
"	"	"	185	....	Rudolph	B., 12, 1297	36, 921
Methyl aniline	$C_6H_5.NHMe$	"	192	....	Hofmann	A., 74, 150	iv., 452
" "	"	"	193	....	"	B., 10, 593	
" "	"	"	190-191	....	"	B., 7, 523	27, 807
" "	"	"	190-192	....	Nölting & Boasson	B., 10, 795	32, 755
" "	"	"	192	....	Monnet, Riverdin, and Nölting	B., 11, 2278	36, 310
" "	"	"	193	....	Michler and Zimmermann	B., 12, 1165	36, 935
" "	"	"	192 (754)	....	Reinhardt & Staedel	B., 16, 29	44, 578
" " (cf. B., 10, 597)	"	"	200	....	Spiller	P. R. S., 21, 209	vii., 73; 26, 759
Amidotoluene (pseudotoluidine)	$CH_3.NH_2=1.2$	"	196-198	....	Körner	....	vi., 1103
" "	" "	"	199	} Different samples {	Beilstein and Kuhlberg	Z. C. [2], 5, 521	vi., 235
" "	" "	"	199				
" "	" "	"	199				
" "	" "	"	197				
" "	" "	"	198	l. -13	" "	Z. C. [2], 6, 102	vi., 1103
" "	" "	"	196	....	Rosenstiehl	B. S. [2], 10, 192	"
" "	" "	"	202 c. (741)	l. -21	....	....	vi., 280
" " ....	" "	"	....	l. -20	Rosenstiehl	A. C. [4], 26, 189	25, 822
" " ....	" "	"	....	Liquid	Grete	A., 177, 231	29, 74
" "	" "	"	197-198	l. -16	Hoogewerff and v. Dorp	B., 11, 1203	34, 973
" "	" "	"	198.4	....	Brühl	A., 200, 139	33, 296
" "	" "	"	197	....	Ramsay	....	35, 472
" "	" "	"	197	....	Tiemann & Schotten	G. J. C., 1878	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Amidotoluene (toluidine)	$\text{CH}_3\text{NH}_2=1.3$	$\text{C}_7\text{H}_9\text{N}$	197	....	Schad	B., 6, 1362	27, 377
" "	" "	"	197	....	Lorenz	C. N., 30, 166	vii., 1176
" "	" "	"	197	Liquid	Wroblewsky	B., 8, 574	28, 886
" "	" "	"	197	....	"	A., 192, 196	34, 977
" "	" "	"	197	....	Beilstein and Kuhlberg	G. J. C., 1870	
" "	" "	"	199.5 (747.14)	....	Körner	G. I., 4, 305	29, 216
" "	" "	"	197-200	....	Widman	B., 13, 677	38, 635
" "	" =1.4	"	198	40	Muspratt and Hofmann	A., 54, 1	i., 575
" " ....	" "	"	....	42.89	Mills	P.R.S. [1881], 205	
" "	" "	"	200	45	Beilstein and Kuhlberg	Z. C. [2], 5, 521	vi., 285
" "	" "	"	198	....	" "	G. J. C., 1869	
" "	" "	"	205-206 (730)	45	Staedler	J. p., 96, 63	v., 865
" " ....	" "	"	....	45	Staedler and Arndt	G. J. C., 1864	
" " ....	" "	"	....	45	Bindschedler	B., 6, 448	26, 911
" " ....	" "	"	....	45	Rosenstiehl	A. C. [4], 26, 189	25, 823
" " ....	" "	"	....	45	Hofmann	B., 5, 721	25, 1024; vii., 59
" " ....	" "	"	....	45	Wallach	A., 173, 274	28, 350
" " ....	" "	"	....	46	Grete	A., 177, 231	29, 73
Lutidine ....	....	"	110-130	....	....	C. R., 92, 413	
α- " ....	....	"	145	....	Scichilone and Magnamini	G. I., 12, 444	44, 99
α- " ....	....	"	153-154	....	Ladenburg	C. R., 98, 516	46, 759
α - "	$\text{C}_6\text{Me}_3\text{H}_3\text{N}$	"	154	....	Hantzsch	A., 215, 56	44, 85
α- " ....	....	"	154	....	Thenius	J., 14, 502	iii., 737
α- " ....	....	"	154	....	Williams	J., 17, 437	
α- " ....	....	"	154	....	Ramsay	....	35, 472
α- " ....	....	"	154.5	....	Anderson	J., 10, 397	
α- " ....	....	"	155	....	Vohl and Eulenberg	Z. A. C. [2], 147, 130	24, 1077
α- " ....	....	"	156.5	....	Richard	B. S. [2], 32, 486	38, 480
α- " ....	....	"	155	....	Kissling	D. P., 244, 234	42, 1254
α- " ....	....	"	155.5	....	Coninck	C. R., 91, 296	40, 56
α- " ....	....	"	150-160	....	"	B. S. [2], 35, 299	40, 612
β - " (ethylpyridine)	$\text{C}_5\text{H}_4\text{EtN}$	"	163-168	....	Williams	J., 17, 437	iii., 737
β - "	"	"	163-168	....	Scichilone and Magnamini	G. I., 12, 444	44, 99
β - "	"	"	165	Liquid	Coninck	C. R., 91, 296	40, 56
β - "	"	"	165	....	"	C. R., 92, 413	40, 443
β - "	"	"	166	....	"	C. R., 95, 298	42, 1302
β - "	"	"	166	....	"	B. S. [2], 35, 303	40, 612
β - "	"	"	165	....	"	"	"
β - "	"	"	165-166	....	"	R. T., 1, 132	44, 220
β - "	"	"	161-164	....	Weidel and Hazara	M. C., 3, 781	44, 223
β - "	"	"	166	....	Ladenburg	C. R., 98, 516	46, 759
β - "	"	"	166	....	Butlerow and Wischnegradsky	B., 11, 1253	38, 269
γ - "	"	"	152	Liquid	Ladenburg	B., 16, 2060	44, 1151
γ- " ....	....	"	173	....	Scichilone and Magnamini	G. I., 12, 444	44, 99
Allylpyroline....	$\text{C}_4\text{H}_4:\text{N.C}_3\text{H}_5$	"	105 (48)	....	Ciamician and Dennstedt	B., 15, 2581	44, 350
? ....	....	"	177-183	....	Williams	J., 7, 494	
? ....	....	"	183-187	....	Mendius	A., 121, 129	iv., 413
Diamidotoluene (tolylene diamine)	$\text{C}_6\text{H}_3\text{Me}(\text{NH}_2)_2=1.3.5$	$\text{C}_7\text{H}_{10}\text{N}_2$	285	Liquid	Stædel	A., 217, 200	44, 865
" "	" =1.2.5	"	abt. 280	64	Nietzky	B., 10, 832	32, 475
" "	"	"	273-274	64	"	B., 10, 1157	32, 768
" " ....	"	"	....	64	"	B., 12, 2237	38, 162

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diamidotoluene (tolylene diamine)	$C_6H_3.Me(NH_2)=1.2.5$	$C_7H_{10}N_2$	....	65	Ladenburg	B., 11, 1652	
"	" =1.2.3	"	270	abt. 80	Beilstein & Kuhlberg	Z. C. [2], 7, 134; A., 158, 352	24, 565; 684; vii., 1180
"	" "	"	....	80	Biedermann	B., 10, 1165	32, 784
"	" =1.3.4	"	265	88.5	Beilstein & Kuhlberg	Z. C. [2], 7, 134; A., 158, 351	24, 565, 683; vii., 1180
"	" "	"	....	89	Ladenburg	B., 10, 1123	32, 752
"	" "	"	....	89	"	B., 9, 220	29, 933
"	" =1.2.4	"	abt. 280	99	Hofmann	P. R. S., 11, 518; J. [1861], 513	26, 683; v., 872; vii., 1180
"	" "	"	283-285	99	Hell and Schoop	B., 12, 723	36, 715
"	" "	"	....	99	Ladenburg	B., 8, 1209	29, 401
"	" "	"	....	99	Bernthsen and Trompeter	B., 11, 1758	
"	" "	"	....	99	Biedermann	B., 10, 1160	32, 783
"	" "	"	....	99	Wallach	B., 15, 2826	44, 584
Methylphenyl hydrazine	.... N_2H_2PhMe	"	222-224 (715)	1-17	Fischer	A., 190, 150	34, 312
Tolylhydrazine	.... $C_6H_4.Me(NH.NH_2)=1.2$	"	....	56	Bosler	A., 212, 338	42, 1062
"	.... " =1.4	"	240-244 p.d.	61	Fischer	B., 9, 890	
Ethylhydropyridene....	.... $C_5H_4H_2EtN$	$C_7H_{11}N$	148	....	Hofmann	B., 14, 1500	40, 921
Trimethylpyrroline	.... $CMe.CH : CMe.CMe.NH$	....	180-195	Liquid	Ciamician and Dennstedt	B., 14, 1338	
Oxaethylpropylene	.... $C_5H_7EtN_2$	$C_7H_{12}N_2$	219-220	Liquid	Radziszewsky	B., 16, 490	44, 729
Oxalpropylethylene	.... $C_4H_7PrN_2$	"	224-225	Liquid	"	B., 16, 489	"
Oxalpropylene	.... $C_3H_5MeN : NPr$	"	229-234	....	Wallach	B., 16, 543	44, 911
Glyoxalisoamyline	....	"	250-270	120-121	Radziszewsky	B., 16, 747	44, 1086
Enanthonitril	.... $Me.(CH_2)_6.CN$	$C_7H_{13}N$	175-178	Liquid	Mehlis	A., 185, 368	34, 135
Dimethyl piperidin....	....	"	137-140	Liquid	Ladenburg	B., 14, 1347	
Butylene guanamine	.... $N.C(:NH).CHPr^{\beta}$ $NH:C.NH.C:NH$	$C_7H_{13}N_5$	....	172-173 u.c.	Bandrowski	B., 9, 240	30, 190
Diethylallylamine	.... $C_5H_9NEt_2$	$C_7H_{15}N$	100-103	....	Rinne	A., 168, 205	27, 50
"	....	"	110-113	....	Liebermann & Paal	B., 16, 526	44, 909
Dimethyl piperidine	.... $C_5H_9Me : NMe$	"	118	....	Hofmann	B., 14, 661	40, 621
"	....	"	118	Liquid	Ladenburg	B., 14, 1346	42, 535
Ethyl piperidine	.... $C_5H_9Et : NH$	"	122	....	Rinne	A., 168, 261	27, 50
"	....	"	128	....	Hofmann	B., 14, 660	
"	....	"	128	....	Cahours	A. C. [3], 38, 96	iv., 657
"	....	"	126-128	....	Ladenburg	B., 14, 1343	42, 534
"	....	"	143	....	"	C. R., 98, 516	46, 760
γ -" " " " " " $C_5H_{10} : NEt$	"	155-160	....	Coninck	C. R., 98, 1438	46, 1047
β -Lutidine hexhydride	....	"	153-155	Liquid	Hofmann	B., 15, 772	42, 1054
Heptylamine	.... $CH_3(CH_2)_6.NH_2$	$C_7H_{17}N$	145-147	....	Schorlenmer	16, 221	iii., 147
"	....	"	144-148	....	Pelouze and Cahours	A. C. [4], 1, 5	
Dicyanobenzene (isophthalonitril)	$C_6H_4(CN)_2=1.3$	$C_8H_4N_2$	....	156	Körner & Monselise	G. I., 6, 133	31, 81
"	" "	"	....	150-160	Wollz	A., 168, 81	26, 1143
"	" "	"	....	158-159	Barth and Senhofer	A., 174, 236	28, 365
"	" "	"	....	160-161	"	B., 8, 1481	29, 585
"	" "	"	....	156	Beyer	J.p. [2], 22, 352	40, 96
" (terephthalonitril)	" =1.4	"	n.v. 195	Solid	Wislicenus and Brunnens	B., 4, 984	vii., 152
"	" "	"	....	a. 200	Barth and Senhofer	A., 174, 235	28, 366
"	" "	"	....	215	Limpricht	A., 180, 89	29, 931
"	" "	"	....	222	Körner & Monselise	G. I., 6, 133	31, 81
"	" "	"	contains 1.3	205-216	Egli	B., 8, 818	29, 932
Quinoxaline	.... $C_6H_4.N : CH.CH : N=1.2$	$C_8H_6N_2$	220-223	27	Hinsberg	B., 17, 318	46, 1052

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diazobenzene cyanide	Ph.N : N.CN + HCN	C ₆ H ₅ N ₄	....	69	Gabriel	B., 12, 1638	38, 41
Benzyl cyanide (α-toluenitril)	C ₆ H ₅ .CH ₂ .CN	C ₇ H ₇ N	226=231·9 c.	Liquid	Hofmann	B., 7, 519	27, 793
" "	"	"	226·5=231·5c.	Liquid	"	B., 7, 1294	
" "	"	"	229	....	Radziszewsky	B., 3, 198	37, 567
Tolylcyanide (toluic nitril)	C ₆ H ₄ .Me.CN=1.2.	"	203-204 c.	Liquid	Weith	B., 6, 419	
" "	" =1.4	"	217·8 c.(761·8)	28·5	Paternò and Spica	G. I. [1875], 25 ; B., 8, 441	28, 642
Indole	C ₈ H ₇ .CH : CH.NH=1.2	"	....	52	Lipp	B., 17, 1067	46, 1030
"	" "	"	245-246 p.d.	52	Nencki	B., 8, 1517	vi., 733
Isoindole	Ph.C : N.CH ₂ (?)	"	....	194-195	Stædel	B., 10, 1832	34, 420
" ....	"	"	....	194-195	Stædel and Rügheimer	B., 9, 563	30, 297
"	=C ₁₆ H ₁₄ N ₂ (B., 16, 342)	"	....	194-195	Stædel and Kleinschmidt	B., 13, 838	
Phenylamidoacetonitril	Ph.CH(NH ₂).CN	C ₈ H ₈ N	....	Crystalline	Tiemann & Friedländer	B., 14, 1967	42, 56
Benzylcyanamide	C ₆ H ₅ CH ₂ .NH.CN	C ₈ H ₈ N ₂	....	33	Strakosch	B., 5, 692	vii., 182; 25, 1026
Methenyl tolylene diamine....	Me.C ₆ H ₄ .N : CH.NH	"	....	98-101	Ladenburg	B., 10, 1124	32, 752
Ethenyl phenylene diamine	C ₆ H ₄ .N : CMe.NH	"	....	170	Hübner	A., 209, 353, 357	42, 180
" " "	"	"	....	175	Ladenburg	B., 8, 677	28, 1036
Amidobenzyl cyanide ...	C ₆ H ₄ .NH ₂ .CH ₂ .CN=1.4	"	....	43·5-44·5	Gabriel	B., 15, 835	42, 1070
" " "	" "	"	312	46	Friedländer and Mähley	B., 16, 1023	44, 918
Phenyl dicyanhydrazine	Ph.N.C : NH | HN.C : NH	C ₈ H ₈ N ₄	....	160 pd.	Fischer	A., 190, 140	34, 310
Phthalidine	C ₈ H ₇ : NH ₂	C ₈ H ₉ N	255	abt. 22	Dusart	A. C., 45, 335	iv., 632
Amidostyrolene	C ₈ H ₄ .NH ₂ .C ₂ H ₃ =1.4	"	....	76-81	Bernthsen & Bender	B., 15, 1982	44, 70
From formorthotoluide ....	....	"	....	153	Ladenburg	B., 10, 1130	32, 754
Phenylacetamidine ....	....	C ₈ H ₁₀ N ₂	....	116-117·5	....	A., 184, 327	
Phenylacetamimide	Ph.CH ₂ .C(NH ₂) : NH	"	....	83-89	Bernthsen	B., 9, 429	30, 95
Azophenylethyl	Ph.N : N.Et	"	175-185 p.d.	....	Fischer & Ehrhard	A., 199, 328	38, 243
Phenethylamine (cf. B., 12, 1308, 1700)	Ph.CH ₂ .CH ₂ .NH ₂	C ₈ H ₁₁ N	Carbonate ?	87-88	Bernthsen	A., 184, 306	31, 617
" "	"	"	"	87-88	Erlenmeyer & Lipp	A., 219, 179	44, 993
" ....	"	"	....	Liquid	Fileti	G. I., 8, 446 ; B., 12, 297, 1308	38, 719
"	"	"	193c. (757·8)	Liquid	Spica	G. I., 9, 555	38, 242
Dimethylaniline	C ₆ H ₅ .NMe ₂	"	190	....	Ramsay	....	35, 472
"	"	"	192	....	Brühl	B., 9, 1368	31, 165
"	"	"	192 c.	s. 0·5	Brunner and Brandenburg	B., 11, 700	
"	"	"	191-192	....	Hofmann	B., 7, 523	27, 807
"	"	"	192-193	....	"	B., 10, 593	
"	"	"	192	s. 0·5	"	C. N., 27, 1	
"	"	"	192	s. b. 0	Monnet, Reverdin, and Nölting	B., 11, 2278	28, 310
"	"	"	192	....	Claus and Howitz	B., 17, 1324	46, 1006
"	"	"	192	....	Reinhardt & Stædel	B., 16, 29	44, 578
"	"	"	193	....	Körner	G. I. [1881], 548 ; B., 15, 529	42, 739
"	"	"	202	....	Lauth	B. S. [2], 7, 448	
Ethylaniline	C ₆ H ₅ .NH.Et	"	202-204	....	Reinhardt & Stædel	B., 16, 30	44, 578
"	"	"	204	....	Hofmann	J., 2, 398	iv., 450
"	"	"	204-206	....	"	B., 7, 527	27, 807
"	"	"	205-210	....	Spiller	P. R. S., 21, 204	vii., 73 ; 26, 759
Ethylamidobenzene	C ₆ H ₄ Et.NH ₂ =1.2	"	210-211	....	Beilstein & Kuhlberg	A., 156, 209 ; Z. C. [2], 5, 525	vi., 292, 1131
"	" =1·4	"	213-214	....	" "	"	"
"	" "	"	212-216	....	Hofmann	B., 7, 527	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methyltoluidine	$C_6H_4.Me.NHMe=1.2$	$C_9H_{11}N$	207-208	Liquid	Monnet, Reverdin, and Nölting	B., 11, 2279	36, 310
"	" "	"	207	....	Reinhardt & Stædel	B., 16, 30	44, 578
"	" =1.3	"	206-207	Liquid	Monnet, Reverdin, and Nölting	B., 11, 2279	36, 311
"	" =1.4	"	206-207	....	" "	B., 11, 2281	"
"	" "	"	208	....	Thomsen	B., 10, 1584	34, 218
"	" "	"	207-208	....	Claus and Steinberg	B., 16, 914	"
Xylylamine	$C_6H_4Me(CH_2.NH_2)=1.2$	"	196	Liquid	Pieper	A., 151, 132	vi., 1132
Amidoxylene (xylidine)	$C_6H_3Me_2.NH_2=1.2.4$	"	215	l.-20	Wroblewsky	A., 207, 98 ; B., 12, 1227	36, 919
" "	" "	"	226	49	Jacobsen	B., 17, 159	46, 737
" "	" =1.3.4	"	213-214	....	Church	P. M. [4], 9, 455	"
" "	" "	"	214-216	....	Deumelandt	Z. C. [1866], 22	v., 1059
" "	" "	"	216	....	Tawildarow	Z. C., 13, 418	vii., 1210
" "	" "	"	212 u. c.	Liquid	Schmidt	A., 193, 177	36, 157
" "	" "	"	212	....	Wroblewsky	A., 207, 91	40, 434
" "	" "	"	212	....	Hofmann	B., 9, 1295	31, 92
" "	" (?)	"	212	{ isomeric? }	"	B., 2, 378	vii., 1209
" "	" (?)	"	212		Hofmann & Martius	B., 2, 412	"
" "	" "	"	204 ; 212	l. f. m.	Claus	B., 15, 318	"
" "	" =1.3.5	"	220-221	Liquid	Wroblewsky	B., 10, 1248	34, 55
" "	" "	"	220-221 c.	l.-20	"	A., 207, 95	40, 433
" "	" =1.3.2	"	216 c.	Liquid	Schmidt	A., 193, 179	36, 157
" "	" =1.4.3	"	220-221	Liquid	Schaumann	B., 11, 1537	36, 52
" "	" "	"	220-221	....	Wroblewsky	A., 207, 91	40, 434
" "	" = ?	"	198-210	....	Hübner	B., 10, 1710	34, 143
" "	" "	"	202-204	....	....	A., 208, 321	"
" "	" "	"	210-214	....	Rosenstiehl	A. C. [4], 26, 189	25, 826
" "	" "	"	212-216	....	Wallach	A., 173, 274	28, 350
" "	" "	"	216	....	Hofmann	B., 5, 714 ; P. R. S., 21, 47	25, 1023 ; vii., 58
" "	" "	"	215-220	....	Hübner	A., 210, 328	42, 504
Collidine	" "	"	115-180	....	Cahours and Etard	C. R., 92, 1079	"
" (γ-isopropylpyridine)	$C_5H_4N.Pr^{\beta}$	"	158	....	Ladenburg and Schreder	B., 17, 1121	46, 1048
" (γ-propylpyridine)	$C_5H_4N.Pr$	"	163	....	Ladenburg	C. R., 98, 516	46, 759
" (α-isopropylpyridine)	$C_5H_4N.Pr^{\beta}$	"	167	....	Ladenburg and Schreder	B., 17, 1122	46, 1048
" (propylpyridine)	$C_5H_4N.Pr$	"	170	....	Cahours and Etard	C. R., 92, 1079	40, 826
γ- "	"	"	170	....	Thenius	J., 14, 502	"
γ- "	"	"	171	....	Kissling	D. P., 244, 234	42, 1254
γ- "	"	"	171-172	....	Hantzsch	A., 215, 32	44, 83
γ- "	"	"	171.5	....	Vohl and Eulenberg	A. P. [2], 147, 130	24, 1077
β- "	"	"	173	....	Ramsay	....	35, 472
β- "	"	"	174	....	Ladenburg	C. R., 98, 516	46, 759
α- "	"	"	177-179 (763)	....	Wurtz	C. R., 88, 940	36, 704
α- "	"	"	178	....	Hantzsch	A., 215, 32	44, 83
α- "	"	"	178-180	....	Baeyer	Z. C., 12, 689	"
α- "	"	"	179	....	Anderson	J., 7, 490	i., 1082
α- "	"	"	179	....	Williams	Chem. Gaz., 13, 309	"
α- "	"	"	179-180	....	Richard	B. S. [2], 32, 488	38, 481
α- "	"	"	180	....	Church and Owen	J., 13, 359	"
α- "	"	"	180	....	Coninck	C. R., 91, 296 ; B. S. [2], 35, 296	40, 56, 612
α- "	"	"	180	....	Anderson	J., 10, 397	"
α- "	"	"	180-182	....	Kramer	Z. C. [2], 6, 568	vii., 378, 478
α- "	"	"	178-183	....	Wurtz	C. R., 95, 263	42, 1303
α- "	"	"	180-182	....	Coninck	C. R., 95, 298	42, 1302
α- "	"	"	181	....	Tawildarow	B., 6, 1459	27, 348

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
β -Collidine ....	....	$C_8H_{11}N$	195	Liquid	Coninck	C. R., 91, 296 ; B. S. [2], 35, 296	40, 56, 612
β- " ....	....	"	195-196	....	"	R. T., 1, 132 ; A. C., 5, 433 ; C. R., 95, 298	42, 1302 ; 44, 220, 739
Aldehydocollidine (aldehydehydine)	....	"	175	....	Ador and Baeyer	Z. C. [2], 14, 724	vi., 82
" " ....	....	"	179-180	....	Richard	B. S. [2], 32, 488	38, 481
" " ....	....	"	179-182	....	Wurtz	C. R., 95, 263	42, 1303
Paracollidine ....	....	"	220-230	....	....	A., 155, 307	
? ....	....	"	198-208	....	Klinger	B., 16, 946	
Dimethylketine	$(Me.C.N : C.Me)_2$	$C_8H_{12}N_2$	....	87	Treadwell	B., 14, 1469	40, 895
" "	"	"	189	88	Gutknecht	B., 13, 1116	
Dimethylphenylene diamine	$C_6H_4.NH_2.NMe_2=1.4$	"	257 c.	41	Wurster	B., 12, 524	36, 627
" "	"	"	257	38-39	"	B., 12, 536	
Diamidoxylene	$C_6H_2Me_2(NH_2)_2=1.3.5.6$	"	....	74-75	Hofmann	B., 9, 1298	31, 93
" " ....	" = ?	"	....	99	Biedermann	B., 9, 1670	31, 474
" "	" = 1.4.2.5	"	....	150	Nietzky	B., 13, 471	38, 553
" " ....	"	"	....	152	Fittig and Ahrens	A., 147, 15	vi., 1133
?	Base	"	180-230	....	Schrötter	B., 12, 1432	
Tropidine ....	....	$C_8H_{13}N$	162	Liquid	Ladenburg	B., 12, 944	36, 733
" " ....	....	"	160-165	....	"	B., 13, 252	
Hydrocollidine ....	....	"	205	Liquid	Cahours and Etard	C. R., 92, 1079	40, 825
" " ....	....	"	205	....	Etard	C. R., 97, 1218	48, 464
" " ....	....	"	175-180	Liquid	Hantzsch	A., 215, 44	44, 84
Alkaloid from putrefaction ....	....	"	110	....	Gautier and Etard	C. R., 94, 1598	44, 225
Ethenyldipropionimidine	$CEt : N.CMe.N : CEt.N$	$C_9H_{13}N_3$	....	204	Pinner	B., 16, 1661	44, 1099
Dimethyltriamidobenzene	$NMe_2.NH_2.NH_2=1.3.4$	"	298	42-44	Wurster & Sendtner	B., 12, 1806	38, 110
Oxalpropylene	$C_3H_2EtN : NPr$	$C_8H_{14}N_2$	229-230	Liquid	Wallach & Schulze	B., 14, 423	40, 572
" "	"	"	229-230	....	Wallach	B., 15, 651	42, 821
" "	"	"	229-234	....	"	B., 16, 543	
Amyl glyoxaline	$C_3H_3N : NC_6H_{11}$	"	240-245	....	"	B., 15, 651	"
Heptylic cyanide (caprylonitril)	$C_7H_{15}.CN$	$C_8H_{15}N$	194-196	Liquid	Felletan	Z. C. [2], 4, 665	vi., 395, 525
Coniine (paraconiine)	See $C_8H_{17}N$	"	163.5 (739)	....	Wertheim	A., 123, 157	ii., 964
" (artificial)	$Et.CH : CH.N : CHPr^a$	"	168-170	....	Schiff	A., 166, 88	vii., 380
" "	"	"	168	....	"	B., 5, 43	25, 416
" " ....	....	"	168-169	Liquid	Schorm	B., 14, 1767	
" " ....	....	"	160-180	....	Michael	B., 14, 2105	
" " ....	....	"	187.5	....	Geijer	....	ii., 3
" " ....	....	"	189	....	Christison	....	"
" " ....	....	"	212	....	Ortjora	A., 42, 313	"
Base from coniine ....	....	"	158	....	Hofmann	B., 16, 559	44, 789
" " " " ....	....	"	173	....	"	"	"
Hydrotropidine	C_6H_7NMeEt	"	167-169	....	Ladenburg	B., 16, 1409	44, 1155
Isobutenylbutylidene amine	....	"	145-147	Liquid	Lipp	B., 14, 1748	42, 165
Amylene guanamine	$Pr^a.CH_2.CH.C : NH$	$C_8H_{15}N_5$	....	177-178 u. c.	Bandrowski	B., 9, 244	30, 191
	$C(:NH).NH.C(:NH)NH$						
Amidocaprylonitril	$C_7H_{14}(NH_2)CN$	$C_8H_{16}N_2$	....	0	Erlenmeyer & Sigel	A., 177, 124	28, 1014
Coniine	See $C_8H_{15}N$	$C_8H_{17}N$	168-171	....	Blyth	1, 345	ii., 3
" " ....	....	"	170	....	Petit	G. J. C., 1877	
Aldehydocollidinehexahydride	....	"	165	Liquid	Dürkopf	B., 17, 1131	48, 1054
β -Collidine hexahydride	$C_8H_8MeEt.NH$	"	175-180	....	Coninck	C. R., 98, 1438	46, 1048
Propyl piperidine	$C_8H_{10}N.Pr^a$	"	149-150	....	Ladenburg	B., 14, 1348	42, 535
" " " "	"	"	147-151	....	"	B., 15, 1147	
Iso- " " " "	$C_8H_{10}N.Pr^a$	"	149-150	....	"	B., 15, 1348	"
Isoamylallylamine	$C_5H_5.NH.C_6H_{11}$	"	148-153	....	Liebermann & Paal	B., 16, 531	44, 909
Octylamine	$CH_3.(CH_2)_7.NH_2$	$C_8H_{19}N$	185-187	....	Eichler	B., 12, 1886	
" " " " ....	....	"	175	....	Bouis	A. C. [3], 44, 139	iv., 172
" " " " ....	....	"	172-175	....	Cahours	A., 92, 399	"

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Octylamine ....	....	$C_8H_{19}N$	171-174	....	Hofmann	B., 15, 73	42, 1054
" ....	....	"	168-172	....	Pelouze & Cahours	J. [1863], 529	iv., 172
"	Secondary	"	165	....	Jahn	B., 8, 805	28, 1188
"	"	"	164	....	Squire	7, 108	iv., 172
"	"	"	162.5	....	Jahn	B., 15, 1293	
Dibutylamine	$NH(CH_2Pr^a)_2$	"	abt. 160	....	Lieben and Rossi	A., 158, 175	24, 523; vii., 222
Diisobutylamine	$NH(CH_2Pr^b)_2$	"	120-122	....	Reimer	Z. C. [2], 7, 26	24, 122
"	"	"	120-122	....	Hofmann	B., 3, 757	vii., 222
"	"	"	135-137 u. c.	....	Ladenburg	B., 12, 949	36, 704
Methylethyl isoamylamine	$NMe.Et(C_5H_{11})$	"	135	....	Hofmann	4, 317	iii., 1001
Diethyldiethylene diamine	$(C_2H_4)_2:N_2H_2Et_2$	$C_8H_{20}N_2$	185	....	"	J. [1859], 389	ii., 588
Tetrethyl tetrazone	$Et_2N.N:N.N.Et_2$	$C_8H_{20}N_4$	d. 135-140	1. -17	E. Fischer	B., 11, 2209	36, 451
Tricyanobenzene (?)	$C_6H_3(CN)_3$	$C_6H_3N_3 (?)$	....	abt. 112	Woelz	A., 168, 81	28, 1143
Cinnamionitril	$C_6H_5.CH:CH.CN$	C_9H_7N	254-255	11	Rossumo	Z. C. [2], 2, 362	vi., 471
Quinoline (chinoline) ....	....	"	238	b. -20	Bromeis	....	i., 870
" " ....	....	"	243	....	Butlerow and Wischnegradsky	B. S. [2], 30, 26	34, 988
" " ....	....	"	227-228 u. c. (710)	....	Königs	B., 12, 98	36, 471
" " ....	....	"	229	....	Japp and Graham	....	39, 174
" " ....	....	"	227-230 u. c.	....	Skraup	W. A., 81, 593	40, 288
" " ....	....	"	233	....	Wischnegradsky	B. S. [2], 34, 339	40, 444
α- " " ....	....	"	234-235 u. c.; 240.37-241.33 c. (750.1)	....	Kretschy	W. A., 83, 171	40, 829
" "	$CH:CH.C.CH:CH$ $| \quad \quad || \quad |$ $CH:CH.C.N:CH$	"	236-237 (775)	....	Coninck	A. C., 5, 433; B. S. [2], 37, 208	44, 739; 44, 89
" " ....	....	"	236-237 (775)	....	"	" "	" "
" " ....	....	"	228-230	....	"	....	42, 414
α- " " ....	....	"	238-25-239-25	....	Hoogewerff and v. Dorp	R. T., 1, 1, 107; B., 16, 425	44, 89
β - " "	(Leucoline)	"	239-25-240-25 (761)	....	" "	" "	"
β - " "	"	"	239	....	Hofmann	A., 47, 79	
" " ....	....	"	233-237	....	Weidel and Hazara	M. C., 3, 770	44, 223
α- " " ....	....	"	238-243	....	Williams	J., 9, 533	
α- " " ....	....	"	237.1 (746.8)	....	Skraup	W. M., 1881	
" " ....	....	"	232-233	....	Baeyer and Skraup	....	42, 414
" " ....	....	"	235-240	....	Jacobsen & Reimer	B., 16, 1082	44, 922
" " ....	....	"	238-240	....	Wurtz	C. R., 95, 263	42, 1303
α- " " ....	....	"	235.65 c.	....	Friese	B., 14, 2805	42, 868
" " ....	....	"	228	....	Baeyer and Skraup	....	42, 414
" " ....	....	"	235-240	....	Hartley	....	41, 47
Toluquinioxaline	$C_6H_3Me.N:CH.CH:N=1.3.4$	$C_9H_8N_2$	243-244 u. c.	1.-10	Hinsberg	B., 17, 321	48, 1053
o-Amidoquinoline	$C_9H_6N.NH_2$	"	....	66-67	Bedall and Fischer	B., 14, 2573	
o- " " ....	"	"	....	71-74	Königs	B., 12, 451	
m- " " ....	"	"	....	109-110	....	B., 16, 725	
p- " " ....	"	"	....	114	Coste	B., 16, 671	44, 811
Diazotoluene cyanide	$C_6H_4MeN:N.CN+HCN=1.4$	$C_9H_8N_4$	....	77.5	Gabriel	B., 12, 1639	38, 41
Phenylpropionitril	$C_6H_5.CH_2.CH_2.CN$	C_9H_9N	253.5; 261 c.	Liquid	Hofmann	B., 7, 520	27, 793
Methyl ketole	$NH \begin{array}{c} C_6H_4 \\ \diagup \quad \diagdown \\ CMe \quad CH \end{array}$	"	....	59	Baeyer and Jackson	B., 13, 187	38, 395
" " ....	"	"	....	59	Jackson	B., 14, 879	40, 734
Skatole ....	....	"	....	93-95	Brieger	B., 10, 1030	34, 438
" " ....	....	"	....	93	"	B., 12, 1985	38, 259
" " ....	....	"	....	92-93	Salkowski	B., 12, 652	
" " ....	....	"	....	93-94	Baeyer	B., 13, 2340	
" " ....	....	"	....	93	Fischer and German	B., 16, 711	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Amidotrimethyl benzene (pseudocumidine)	$C_6H_3 \cdot Me_3 \cdot NH_2 = 1.3.4.6$	$C_9H_{13}N$	234-235	63	Hofmann	B., 15, 2895	44, 324
" (mesidine)	" = 1.3.5.6	"	226-227	<i>l.</i> -15	Ladenburg	B., 7, 1136	28, 64
" "	" "	"	227	Liquid	Biedermann and Ledoux	B., 8, 58	28, 569
" "	" "	"	....	b. 0	Fittig and Storer	A., 147, 3	vi., 300
" "	" "	"	225-227	....	Hofmann	B., 5, 704; 8, 61	25, 1023; vii., 58
" "	" "	"	225-227	....	Eisenberg	B., 15, 1	
α -Parvoline ....	....	"	187-188	....	Vohl & Eulenberg	A. P. [2], 147, 130	24, 1077
α- " ....	....	"	188	....	Thenius	J., 14, 502	
α - " (from Dippel's oil)	....	"	188	....	Coninck	C. R., 91, 296	40, 56
α- " ....	....	"	188	....	Kissling	D. P., 244, 234	42, 1254
α- " ....	....	"	188	....	Waage	M. C., 4, 708	46, 172
?- " (?)	....	"	193-195 c.	....	"	M. C., 3, 695	44, 39
?- " ....	....	"	198-200	Liquid	"	M. C., 4, 708	46, 172
β - " (from cinchonine)	....	"	220	....	Coninck	C. R., 91, 296	40, 56
Trimethyldiamidobenzene	$C_6H_4 \cdot NMe_2 \cdot NHMe = 1.4$	$C_9H_{14}N_2$	265	Liquid	Wurster & Schobig	B., 12, 1810	38, 111
Dimethyldiamidotoluene	$C_6H_3 \cdot Me \cdot NMe_2 \cdot NH_2 = 1.3.?$	"	....	28	Wurster & Riedel	B., 12, 1801	38, 109
Diamidocumene	$C_6H_3 \cdot Pr^2 \cdot (NH_2)_2$	"	....	47	Hofmann	C. R., 55, 781	vi., 516
Diamidomesitylene	$Me_3 \cdot (NH_2)_2 = 1.3.5.4.6$	"	....	90	Fittig	A., 141, 134	vi., 300
Cyanconiine ....	....	"	204-205	Liquid	Meyer	J. p. [2], 26, 338	44, 352
" ....	....	"	204-205	Liquid	"	J. p. [2], 22, 280	40, 55
Dehydrotriacetonamine ....	....	$C_9H_{15}N$	158	....	"	A., 174, 166; 183, 276	
Triallylamine	$(CH_2 : CH \cdot CH_2)_3N$	"	150-151	Liquid	Pinner	B., 12, 2054	38, 99
"	"	"	155	....	Zander	A., 214, 151	44, 13
Isoamylpyrroline	$C_4H_4 \cdot N \cdot C_5H_{11}$	"	180-184	....	Bell	B., 10, 1866	36, 525
Trimethyltriamidobenzene	$C_6H_3 \cdot NMe_2 \cdot NHMe \cdot NH_2$	$C_9H_{15}N_3$	294	90	Wurster & Schobig	B., 12, 1813	38, 111
Cyanethine ....	....	"	280 p. d.	190	Frankland & Kolbe	A., 65, 281	ii., 189
" ....	....	"	....	189	Meyer	J. p. [2], 22, 261	40, 54
Glyoxalisocœnanthylene	$C_3H_2 \cdot (C_6H_{13})N : NH$	$C_9H_{16}N_2$	....	84	Radziszewsky	B., 16, 748	44, 1087
Oxaethylisoamylene	$C_7H_{11}EtN_2$	"	224-225 (743)	Liquid	Radziszewsky & Szul	B., 17, 1294	46, 986
Pelargono-nitril	$C_8H_{17} \cdot CN$	$C_9H_{17}N$	214-216	Liquid	Eichler	B., 12, 1888	38, 230
Iso " "	"	"	206	Liquid	Felletas	Z. C. [2], 4, 665; J., 21, 634	vi., 525
Dipropylallylamine	$NPr^2 \cdot C_3H_5$	$C_9H_{19}N$	145-150	....	Liebermann & Paal	B., 16, 527	44, 909
Ethylhexhydroethylpyridine	$C_5H_9Et : NEt$	"	175	....	Wischnegradsky	B. S. [2], 34, 339; B., 13, 2401	40, 444
Nonylamine	$C_9H_{19} \cdot NH_2$	$C_9H_{21}N$	195	....	Hofmann	B., 15, 773	42, 1054
"	"	"	190-192	....	Pelouze & Cahours	J., 16, 529	iv., 134
Tripropylamine	NPr^3	"	144-146	Liquid	Roemer	B., 6, 1101	27, 39
"	"	"	156.5	....	Zander	A., 214, 171	
Diethylisoamylamine	$NEt_2 \cdot (C_5H_{11})$	"	154	....	Hofmann	4, 315	ii., 560
Cyanoquinoline	$C_9H_6 \cdot N \cdot CN = 1.2$	$C_{10}H_6N_2$	....	Liquid	Coste	B., 15, 196	
" ....	" "	"	....	Liquid	Bedall and Fischer	B., 15, 684, 1980	
"	" = 1.3	"	360	87-88	Bedall & O. Fischer	B., 14, 2574	42, 413
"	" = 1.4	"	....	131	Fischer & Willmack	B., 17, 440	46, 1051
Xylyldicyanide	$C_6H_4 \cdot (CH_2 \cdot CN)_2 = 1.2$	$C_{10}H_8N_2$	....	59-60	Baeyer and Pape	B., 17, 447	46, 898
"	" = 1.4	"	....	88-90	Biedermann	B., 5, 703	25, 1013
Dicyanoxylene	$C_6H_2 \cdot Me_2 \cdot (CN)_2 = 1.4.?$	"	....	98	Klippert	B., 9, 1767	31, 468
Dipyridyl	see $C_{10}H_{10}N_2$	"	149.5	Liquid	Skraup & Vortmann	M. C., 3, 370	44, 88
" ....	....	"	287-289 u. c.	....	....	M. C., 3, 599	
γ " ....	....	"	304.8 c. (760); 293 (743)	114 u. c.	Weidel and Russo	M. C., 3, 856	44, 483
γ " + 2H ₂ O ....	....	"	....	73	" "	"	"
α -Naphthylamine	$C_{10}H_7 \cdot NH_2$	$C_{10}H_9N_2$	....	49	Jacobsen	B., 14, 1793	
" ....	"	"	....	49.5	Liebermann	A., 183, 265	31, 600
" ....	"	"	....	49-50	Mainzer	B., 15, 1415	
" ....	"	"	....	50	Benz	B., 16, 14	
"	"	"	abt. 300	50	Zinin	A., 44, 283	iv., 20
"	"	"	300	....	Rechamp	A., 92, 402	
" ....	"	"	....	50	Ballo	B., 3, 675	

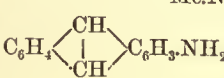
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
α -Naphthylamine	....	$C_{10}H_9N$	....	50	Palm	B., 9, 499	30, 206
"	....	"	....	50	Smith	....	32, 563
β-	....	"	....	112	Calm	B., 15, 610	42, 972
"	....	"	....	112	Liebermann	A., 183, 264	31, 606
"	....	"	....	112	Benz	B., 16, 9	
"	....	"	....	112	Liebermann and Schieding	B., 8, 1110	29, 403
"	....	"	....	112	Merz and Weith	B., 13, 1301	
"	....	"	....	112	Cosiner	B., 14, 58	
"	....	"	....	112	Smith	....	32, 563
"	....	"	294	....	Richter	Tabellen	
Phenylpyrroline	$CH:CH:CH:CH.NPh$	"	....	62	Köttnitz	J. p. [2], 6, 148	26, 164
Lepidine	....	"	266-271	....	Williams	J., 9, 536	iii., 572
"	....	"	256-258	....	Hoogewerff & v. Dorp	B., 13, 1639	40, 110
Idrioline	....	"	252-257	....	....	J. [1856], 536 ; [1863], 431	iii., 572
o -Methylquinoline (chinaldine)	C_9H_8MeN	"	236	....	Skraup	B., 15, 897	42, 1111
?-	"	"	238-239 (716)	Liquid	Doebner and Miller	B., 14, 2814	42, 868
?-	"	"	abt. 240	....	Körner	G. I. [1881], 548	42, 739
?-	"	"	240	Liquid	....	D. P., 250, 533	46, 756
o -	"	"	240	....	Meister and Lucius	B., 16, 982	
?-	"	"	240	Liquid	Drewsen	B., 16, 1955	44, 1149
?-	"	"	240-241	....	Jacobsen & Reimer	B., 16, 1084	
p -	"	"	245	....	Skraup	B., 15, 897	42, 1111
?-	"	"	246-247	....	Wallach & Wüsten	B., 16, 2008	44, 1097
o -	(toluquinoline)	"	247.3-248.3 c. (751.3)	....	Skraup	M. C., 3, 381	42, 1217
o -	"	"	248	Liquid	"	W. A., 83, 434	40, 920
m -	"	"	252	....	"	B., 15, 893	42, 1111
m -	"	"	259.7 c. (747)	Liquid	"	M. C., 3, 381	42, 1217
p -	"	"	257-258	....	"	W. A., 83, 434	40, 920
p -	"	"	257.4-258.6 (745)	....	"	M. C., 3, 381	42, 1217
Cincholepidine	....	"	258.6 c.	....	Weidel	M. C., 3, 76	42, 533
Benzylglyoxaline	$C_3H_3N:N.CH_2Ph$	$C_{10}H_{10}N_2$	310	70-71	Wallach	B., 16, 539	44, 911
Carboallylphenylamide	....	"	....	105	....	J. [1861], 498	
Diamidonaphthalene	$C_{10}H_6(NH_2)_2=a_1; a_2$	"	....	189.5	Aguiar	B., 7, 306	27, 699
"	"	"	....	186	Lellmann	B., 17, 110	46, 751
"	"	"	....	175	Holleman	Z. C. [2], 1, 556	vi., 863
"	"	"	....	160	Zinin	J. p., 33, 29	v., 233
"	"	"	....	120	Griess	B., 15, 2192	44, 183
"	"	"	....	95	"	B., 15, 2193	"
"	"	"	....	66.5	Aiguar	B., 7, 309	27, 699; 44, 183
Dipyridine	See $C_{10}H_8N_2$	"	....	108	Anderson	A., 154, 274	vi., 977
"	....	"	286-290 u. c.	....	....	M. C., 3, 880	
Isodipyridine	....	"	295-305 ; 145-155 (i.v.)	l. f. m.	Ramsay	P. M. [5], 6, 29	36, 264
"	....	"	274-275	1.-20	Cahours and Etard	C. R., 90, 275	38, 672
Amidolepidine	....	"	....	71-74	Koenigs	B., 12, 451	36, 540
Propylbenzonitril	$C_6H_4.Pr^a.CN=1.4$	"	227	Liquid	Franken	B., 17, 1229	46, 1009
Isopropylbenzonitril (cumonitril)	$C_6H_4.Pr^b.CN=1.4$	$C_{10}H_{11}N$	239	....	Hofmann	J., 1, 595	ii., 181
Base from nicotine	....	"	250-270	....	Laiblin	A., 196, 179	36, 809
α -Phenamidoisobutyronitril	$NHPh.CMe_2.CN$	$C_{10}H_{12}N_2$	....	93-94	Tiemann	B., 15, 2040	44, 199
α -Toluamidopropionitril	$Me.(NH.CHMe.CN)=1.2$	"	....	72-73	Tiemann & Stepfan	B., 15, 2038	"
α-	"	"	....	81-82	"	B., 15, 2037	"
Amidocumonitril	$C_6H_3.Pr.NH_2.CN$	"	abt. 305	abt. 45	Czumpelik	B., 2, 184 ; Z. C. [2], 5, 437	vi., 516

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Diet. & J. Ch. Soc.
Ethylquinazole	CH : CH.C.CH.CH ₂ | || | CH : CH.C.NEt.N	C ₁₀ H ₁₂ N ₂	234-235 (741)	30	Fischer and Kuzel	B., 16, 655	44, 812
Tetrahydromethyl quinoline	C ₆ H ₄ .(CH ₂) ₂ .CHMe.NH	C ₁₀ H ₁₃ N	243-246	Liquid	Jackson	B., 14, 889	40, 742
" "	"	"	246-248 (709)	Liquid	Dœbner and Miller	B., 16, 2467	46, 183
" "	"	"	242-244 (720)	Liquid	Hoffmann & Konigs	B., 16, 732	44, 1144
Acetophenone dimethylhydrazine	Me ₂ .N ₂ .CPhMe	C ₁₀ H ₁₄ N ₂	165 (190)	Liquid	Reisenegger	B., 16, 663	44, 798
Camphoric nitril	C ₉ H ₁₄ (CN) ₂	"	sb. 125-130	Solid	Ballo	B., 12, 328	36, 540
Nicotine	"	"	250	l. -10	Barral	"	iv., 45
"	"	"	246.6-246.8 c. (745)	"	Landolt	G. J. C., 1877	
"	"	"	240-242 u. c.	"	Lieblin	B., 10, 2136	34, 432
"	"	"	244	"	Etard	C. R., 97, 1218	46, 464
"	"	"	242	"	Kissling	D. P., 244, 234	42, 1254
Isonicotine	"	"	a. 360	78 u. c.	Weidel and Russo	M. C., 3, 867	
Diethylaniline	C ₆ H ₅ .NEt ₂	C ₁₀ H ₁₅ N	211-211.5 (745.4)	"	Reinhardt & Stædel	B., 16, 30	44, 578
"	"	"	213.5	"	Hofmann	A., 74, 135	iv., 451
Isobutylaniline	C ₆ H ₅ .NH(CH ₂ .CHMe ₂)	"	242	Liquid	Giannetti	G. I. [1882], 266 ; B., 15, 1759	42, 1059
Amidoisobutyl benzene	C ₆ H ₄ .C ₄ H ₉ .NH ₂	"	230	Liquid	Studer	B., 14, 1472	40, 898
" "	"	"	230-232	Liquid	Louis	B., 16, 115	
Dimethylxylylidine	C ₆ H ₃ Me ₂ .NMe ₂ = ?	"	196	"	Hofmann	B., 5, 712	vii., 58 ; 25, 1022
"	" = ?	"	203	"	"	B., 5, 714	"
"	" = 1.2. ?	"	200-202	Liquid	Baur and Stædel	B., 16, 32	44, 579
"	" = 1.3.4	"	203-205	Liquid	" "	"	"
"	" = ?	"	"	87	Sesemann	B., 6, 446	26, 912
Amido-cymene (cymidine)	C ₆ H ₃ .Me.Pr.NH ₂ = ?	"	280 p. d.	"	Rossi	C. R., 51, 270	ii., 298
" "	" = ?	"	250	"	Barton	P. M. [4], 10, 454	ii., 297
" "	" = 1.3. ?	"	232	Liquid	Kelbe and Warth	A., 221, 157	46, 46
Methylpseudocumidine	Me ₂ .NHMe = 1.3.4.6	"	237	44	Hofmann	B., 15, 2896	44, 324
Camphoroxime anhydride	C ₉ H ₁₅ :C:N | | C N	"	216-218	Liquid	Nägeli	B., 16, 2982	46, 610
Coridine	"	"	211	"	Thenius	J., 14, 502	
"	"	"	211	"	Kissling	D. P., 244, 234	42, 1254
"	"	"	211	"	Vohl & Eulenberg	A. P. [2], 147, 130	24, 1077
?	Base	"	210-215	"	Klinger	B., 16, 946	
Tetramethyl diamidobenzene	C ₆ H ₄ (NMe ₂) ₂ = 1.3	C ₁₀ H ₁₆ N ₂	256 c.	Liquid	Wurster and Morley	B., 12, 1814	38, 111
" "	" = 1.4	"	260 c.	51	Wurster	B., 12, 526	36, 627
Amidodiethyl aniline	C ₆ H ₄ NH ₂ .NEt ₂ = 1.4	"	260-262 u. c.	Liquid	Lippmann and Fleissner	B., 16, 1425 ; M. C., 4, 284	44, 869, 1100
Diethylketine	"	"	215-217 c.	Liquid	Treadwell	B., 14, 1463	40, 895
Hydronicotine	"	"	263-264	Liquid	Etard	C. R., 97, 1218	46, 464
Amylhydropyridine	"	C ₁₀ H ₁₇ N	201-203	"	Hofmann	B., 14, 1501	40, 921
Imidoisovaleronitril	NH(CHPr ² .CN) ₂	C ₁₀ H ₁₇ N ₃	"	52	Lipp	A., 205, 23 ; B., 13, 907	40, 85
Methyleyanthine	C ₆ H ₃ .NMe ₃ (NH)(NHMe)	"	257-258	74	Meyer	J. p. [2], 26, 343	44, 352
Oxalpropylisoamyline	C ₇ H ₁₁ Pr ² N ₂	C ₁₀ H ₁₈ N ₂	239-242 (738)	Liquid	Radziszewsky & Szul	B., 17, 1295	46, 986
Dipiperyl tetrazone	C ₅ H ₁₀ N.N : N.NC ₅ H ₁₀	C ₁₀ H ₂₀ N ₄	"	45	Knorr	B., 15, 861	42, 1115
" " (i)	"	"	"	58	Schotten	B., 15, 425	
Dimethylconine	C ₈ H ₁₆ Me : NMe	C ₁₀ H ₂₁ N	182	Liquid	Hofmann	B., 14, 709	40, 745
Isoamyl piperidine	C ₅ H ₁₀ :N.C ₅ H ₁₁	"	186	"	Cahours	A. C. [3], 38, 99	iv., 657
" "	"	"	188	"	Schotten	B., 15, 421	42, 982
From menthol	C ₁₀ H ₁₉ .NH ₂	"	185-190	"	Moriya	"	39, 78
Diamylamine	(C ₅ H ₁₁) ₂ NH	C ₁₀ H ₂₃ N	abt. 176	"	Hofman	P. T. [1851], 357	i., 207
"	"	"	178-180	"	Silva	Z. C., 10, 157	
"	"	"	180	"	Custer	B., 12, 1333	36, 914

Name.	Constitution.	Formula.	Bolling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylisoamyl piperidine ...	$C_9H_9MeN.C_5H_{11}$	$C_{11}H_{23}N$	190-193	Liquid	Schotten	B., 15, 422	42, 982
ϵ -Dicyanonaphthalene ...	....	$C_{12}H_6N_2$	....	170	Darmstadter and Wichelhaus	Z. C. [2], 5, 571	vi., 848
γ- " " " " " " " "	....	"	....	204	" "	"	"
δ- " " " " " " " "	....	"	....	236	" "	"	"
η- " " " " " " " "	....	"	....	262	" "	"	"
α- " " " " " " " "	....	"	....	267-268	Ebert and Merz	B., 9, 604	30, 409
β- " " " " " " " "	....	"	....	296-297	" "	"	"
Azophenylene	$C_6H_4.N.C_6H_4.N$	$C_{12}H_8N_2$	....	170-171	Claus and Rasenack	B., 5, 367	vii., 121
" " " " " " " "	"	"	....	171	Claus and Pfeifer	B., 5, 611	25, 694, 896
" " " " " " " "	"	"	a. 360	171	Claus & Heusinger	B., 8, 39, 600	28, 647
" " " " " " " "	"	"	....	172-174	Skraup	B., 15, 896	42, 1112
" " " " " " " "	"	"	....	171	Claus	B., 15, 2332	"
Phenanthroline	$C:N.C:C.C.N:C$ $C:C.C:C.C.C:C$	"	m. a. 360	78-78.5	Skraup & Vortmann	M. C., 3, 570	44, 86
" " " " " " " "	"	"	m. a. 360	79	Skraup	B., 15, 895	42, 1111
" " " " " " " "	+2H ₂ O	"	....	65.5	Skraup & Vortmann	M. C., 3, 570	44, 86
" " " " " " " "	"	"	....	66	Skraup	B., 15, 895	42, 1111
Tetrazodiphenylimide ....	....	$C_{12}H_8N_6$	....	127	Griess	P. T. [1864], 719	iv., 412
Diphenylimide (carbazole)	$C_6H_4.NH.C_6H_4$	$C_{12}H_9N$	338	238	Græbe and Glaser	B., 5, 13	vii., 254; 25, 302
" " " " " " " "	"	"	....	238	Braun and Greiff	B., 5, 277	25, 502
" " " " " " " "	"	"	354	....	Græbe	B., 7, 1630	28, 455
α -Naphthylacetonitril	$C_{10}H_7.CH_2.CN$	"	a. 300	Liquid	Bœssneck	B., 16, 642	44, 808
Acridine (cf. B., 13, 102)	$CH:CH.C.N:CH$ $CH:C.C.C:C:CH$ $CH.CH:CH$	"	a. 360	107	Græbe and Caro	A., 157, 159	24, 145, 708
" " " " " " " "	....	"	a. 360	107	" "	A., 158, 265	vii., 24
" " " " " " " "	....	"	....	110-111	Fischer and Körner	B., 17, 102	48, 748
From cinchonine ....	....	"	....	192	Königs	B., 12, 99	36, 472
Azobenzene	$C_6H_5N:N.C_6H_5$	$C_{12}H_{10}N_2$	293	65	P. W. Hofmann	A., 115, 364	i., 478
" " " " " " " "	"	"	293	65	Mitcherlich	A., 9	"
" " " " " " " "	"	"	....	65	Kerr	P. M. [5], 13, 255	"
" " " " " " " "	"	"	....	66	Leeds	B., 14, 1384	42, 502
" " " " " " " "	"	"	....	66.5	Glaser	G. J. C., 1867	"
" " " " " " " "	"	"	293	....	Ramsay	....	35, 472
" " " " " " " "	"	"	....	68	Griess	B., 9, 134	29, 933
" " " " " " " "	"	"	....	68	Schmidt & Schultze	B., 12, 486	36, 631
Diphenylamine (phenylani- line)	NHPh ₂	$C_{12}H_{11}N$	310	45	Hofmann	A., 132, 164	iv., 453
" " " " " " " "	"	"	....	53	Græbe	B., 7, 49	27, 481
" " " " " " " "	"	"	....	54	Merz and Weith	B., 6, 1511	vii., 944; 26, 74
" " " " " " " "	"	"	297-298 u.c.	54	" "	B., 13, 1298	"
" " " " " " " "	"	"	310	54	Weith	B., 7, 849	27, 1171
" " " " " " " "	"	"	....	54	Kerr	P. M. [5], 13, 255	"
" " " " " " " "	"	"	....	55	Witt	B., 10, 1309	34, 54
" " " " " " " "	"	"	310	Solid	De Laire, Girard, and Chapoteaut	B. S. [2], 7, 360	vi., 922
" " " " " " " "	"	"	310	....	Ramsay	....	35, 472
Amidodiphenyl	$C_6H_5.C_6H_4.NH_2=1.2$	"	....	44-45	Lüddens	B., 8, 872	28, 1258
" " " " " " " "	" = ?	"	a. 320	45	Hofmann	P. R. S., 12, 389	v., 1054
" " " " " " " "	" = 1.4	"	....	48-49	Osten	B., 7, 171	vii., 937; 27, 580
" " " " " " " "	"	"	....	49	Lüddens	B., 8, 872	28, 1258
" " " " " " " "	"	"	....	49-50	Schultze	B., 7, 53	vii., 937; 27, 468
" " " " " " " "	"	"	322	....	Richter	Tabellen	"
Diazoamidobenzene ..	Ph.N:N.NHPh	$C_{12}H_{11}N_3$	....	91	Griess	A., 121, 258	iv., 460
Amidoazobenzene	Ph.N:N.C ₆ H ₄ .NH ₂ =1.4	"	a. 360	123	....	A., 127, 346	"
" " " " " " " "	"	"	....	125-126	Witt and Thomas	B., 16, 1102	43, 114
" " " " " " " "	"	"	....	127	Sarauw	B., 14, 2443	42, 507
" " " " " " " "	"	"	a. 350	127.4	Schmidt	Z. C. [2], 5, 417	vi., 271

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Amidoazobenzene	Ph.N : N.C ₆ H ₄ .NH ₂ =1.4	C ₁₂ H ₁₁ N ₃	....	130	Martius and Griess	Z. C. [2], 1, 132	vi., 271
Hydrazobenzene	C ₆ H ₅ .NH.NH.C ₆ H ₅	C ₁₂ H ₁₂ N ₂	....	131	Schmidt & Schultz	B., 12, 486	36, 631
" ....	"	"	....	131	Hofmann	P. R. S. 12, 176	vi., 271
Diphenyl hydrazine	N ₂ H ₂ Ph ₂	"	....	l. —17	Fischer	A., 190, 174	34, 313
Amidodiphenylamine	Ph.NH.C ₆ H ₄ .NH ₂ =1.4	"	....	61	Nietzki and Witt	B., 12, 1401	
α -Diamidodiphenyl (benzidine)	NH ₂ .C ₆ H ₄ .C ₆ H ₄ .NH ₂ =1.4 ₂	"	....	122	Wald	B., 10, 139	32, 341
α - " " "	" " "	"	far a. 360	122	Schmidt & Schultz	B., 12, 487	36, 652
α- " " "	" " "	"	....	118	Fittig	A., 124, 275	iv., 411
α- " " "	" " "	"	....	118	Zinin	A., 85, 328	i., 545
δ - " (diphenyl-line)	" =1.2; 1.4	"	....	53	Schultz	B., 9, 548	30, 197
δ - " " "	" " "	"	363	45	Schmidt & Schultz	B., 11, 1754	36, 252
δ - " " "	" " "	"	363	45	" "	B., 12, 487	36, 652
δ - " " "	" " "	"	363	45	Schmidt, Schultz, and Strasser	A., 207, 354	
β -Diamidodiphenyl	C ₁₂ H ₈ (NH ₂) ₂ =?	"	363	Liquid	Schmidt & Schultz	A., 207, 320	40, 910
β - " " "	" " "	"	a. 360	Liquid	Strasser & Schultz	A., 210, 193	42, 521
Ethenyl- α -naphthylamidine	Me.C(NH).NHC ₁₀ H ₇	"	....	s. —15	Bernthsen and Trompeter	B., 11, 1758	36, 147
Diamidoazobenzene (chrysoïdine)	Ph.N : N.C ₆ H ₃ (NH ₂) ₂ =1.2.4	C ₁₂ H ₁₂ N ₄	....	110	Hofmann	B., 10, 213, 388	32, 326
" " " "	" " "	"	....	117.5	Witt	B., 10, 656	32, 457
" (azoaniline)	NH ₂ .C ₆ H ₄ .N ₂ .C ₆ H ₄ .NH ₂ =1.4 ₂	"	....	235–240	Mixter	A. C. J., 5, 282	46, 666
Dimethyl- α -naphthylamine....	C ₁₀ H ₇ .NMe ₂	C ₁₂ H ₁₃ N	267	Liquid	Landshoff	B., 11, 643	34, 587
" - σ - " " "	" " "	"	267	....	Hantzsch	B., 13, 1348	
" - β - " " "	" " "	"	305	46	"	B., 13, 2054	40, 177
Hydrocarbazol ....	....	"	325–330	120	....	A., 163, 358	
Dimethylquinaldine	C ₁₀ H ₇ Me ₂ N	"	....	69–70	Berend	B., 17, 653	46, 1053
Diamidodiphenylamine	NH(C ₆ H ₄ .NH ₂) ₂ =1.4 ₂	C ₁₂ H ₁₃ N ₃	....	155	Nietzki	B., 11, 1098	34, 792
" " " "	" " "	"	....	158	Nietzki and Witt	B., 12, 1402	
" " " "	" " "	"	....	158	Nietzki	B., 16, 474	
Triamidoazobenzene....	N ₂ : C ₁₂ H ₇ (NH ₂) ₃	C ₁₂ H ₁₃ N ₅	....	137	....	Z. C. [1867], 278	
Paraniline ....	....	C ₁₂ H ₁₄ N ₂	....	192	....	J. [1862], 343	
Dipicoline (parapicoline)	C ₆ H ₇ N.C ₆ H ₇ N	" (?)	260–315	....	Anderson	A., 60, 86	iv., 354, 639
" " " "	....	"	310–320 ; 165–175(i.v.)	Liquid	Ramsay	P. M. [5], 6, 31	36, 265
Hydrazoaniline	NH ₂ .C ₆ H ₄ (NH) ₂ .C ₆ H ₄ .NH ₂	C ₁₂ H ₁₄ N ₄	....	140+	....	A., 135, 162	vi., 703
Diphenine ....	....	"	....	145	Lermontoff	B., 5, 233	
Diallylamine	NH(C ₆ H ₇) ₂	C ₁₂ H ₁₅ N	243.5–244.5	....	Zander	A., 214, 149	44, 13
Carbazoline ....	....	"	286 u. c.	96	Græbe and Glaser	B., 5, 14	vii., 254 ; 25 302
" " " "	....	"	296–297 c.	99	....	A., 163, 352	
Anhydrovaleryl diamido-toluene	C ₆ H ₃ Me.N : C(C ₄ H ₉)NH	C ₁₂ H ₁₆ N ₂	....	145–146 u. c.	Friederici	B., 11, 1974	36, 312
" " " "	"	"	....	145	Hübner	A., 209, 365	42, 180
Benzylidene piperylhydrazine	C ₆ H ₁₀ N ₂ .CHPh	"	....	62	Knorr	A., 221, 297	46, 468
Benzyl piperidine	C ₆ H ₉ NH.CH ₂ Ph	C ₁₂ H ₁₇ N	245	Liquid	Schotten	B., 15, 423	42, 982
Dioxaethyline ....	....	C ₁₂ H ₁₆ N ₄	a. 300	Liquid	Wallach	A., 214, 297	44, 49
" " " "	....	"	a. 300	....	"	B., 10, 1194	
Methylisoamylaniline	Ph.NMe.C ₆ H ₁₁	C ₁₂ H ₁₉ N	257	Liquid	Claus & Rautenberg	B., 14, 622	40, 584
Dipropylaniline	Ph.NPr ₂	"	240–242	....	Lippmann and Fleissner	B., 15, 2140	44, 185
" " " "	"	"	245.4	....	Zander	A., 214, 168	44, 14
Di-isopropylaniline	Ph.NPr ₂	"	221	....	"	"	"
Propylamidopropylbenzene....	C ₆ H ₄ .Pr ^a .NHPr ^a =1.4	"	258–260	Liquid	Louis	B., 16, 109	
Isopropylamidoisopropylbenzene	C ₆ H ₄ .Pr ^b .NHPr ^b =1.4	"	245–250	....	"	B., 16, 113	
Viridine ....	....	"	251	....	Thenius	J. [1861], 503	v., 1003
" " " "	....	"	251	....	Vohl and Eulenberg	A. P. [2], 14, 130	24, 1077
" " " "	....	"	251	....	Kissling	D. P., 244, 234	42, 1254

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dipropyl ketine ....	....	$C_{12}H_{20}N_2$	235-240	Liquid	Treadwell	B., 14, 2160	42, 166
Oxalisoamylisoamylamine	$C_7H_{11}(C_2H_4CHMe_2)_2N_2$	$C_{12}H_{22}N_2$	261-262 (737)	....	Radziszewsky & Szul	B., 17, 1296	46, 986
Lauronitrl	$C_{11}H_{23}CN$	$C_{12}H_{23}N$	198 (100)	4	Krafft and Stauffer	B., 15, 1729	42, 1274
Tri-isobutylidenediamine	$C_4H_8 : N.C_4H_8.N : C_4H_8$	$C_{12}H_{24}N_2$	a. 150	....	Lipp	B., 14, 1747	
Ethylene dipiperidyldiamine	$(C_6H_{10})_2C_2H_4.N_2$	"	263	4	Brühl	B., 4, 739	24, 1063
Tricrotonylenamine	$(C_4H_6)_3N_2H_6$	$C_{12}H_{24}N_4$	190 (40)	....	Wurtz	C. R., 88, 1154	36, 780
Tributylamine	$N(CH_2CH_2CH_2Me)_3$	$C_{12}H_{27}N$	211-215 c. (740)	....	Lieben and Rossi	A., 165, 113	vii., 222; 26, 367
"	"	"	abt. 208	....	"	....	34, 849
Triisobutylamine	$N(CH_2CHMe_2)_3$	"	184-186 u. c.	Liquid	Sachtleben	B., 11, 734	"
"	"	"	180-186	....	Ladenburg	B., 12, 950	36, 704
"	"	"	abt. 183	....	Lieben and Rossi	A., 165, 109	vii., 222; 26, 367
"	"	"	177-180	....	Reimer	Z. C. [2], 7, 26	24, 122
"	"	"	177-180	....	Hofmann	B., 3, 757	vii., 222
Triethylene-triethyltriamine	$Et_3(C_2H_4)_3N_3$	$C_{12}H_{27}N_3$	220-250	....	"	J. [1861], 517	ii., 591
Cyanodiphenyl	$Ph.C_6H_4.CN=1.4$	$C_{13}H_9N$	....	84-85	Döbner	A., 172, 111	27, 892
Benzophenylnitrl	$C_6H_4.CPh : N$	"	....	118	Döbner and Weiss	B., 14, 1841	42, 177
"	"	"	....	118	Döbner	A., 210, 276	42, 508
α -Naphthoquinoline ....	....	"	251 (747)	50	....	M. C., 2, 162	
β -	$C : C.C.C : C.C : C$	"	....	90	Skraup & Cobenzl	B., 15, 896 ; M. C., 4, 436	44, 1011
Carbodiphenylimide	$Ph.N : C : N.Ph$	$C_{13}H_{10}N_2$	330-331 c.	....	Weith	B., 7, 1307	
"	polymer	"	....	168-170	"	B., 7, 11	27, 481
Diphenylcyanamide ....	"	"	....	292	"	B., 7, 848	27, 1171
Benzenylphenyleneamidine	$C_6H_4.N : CPh.NH$	"	....	250	Hübner	A., 208, 302	40, 1131
Base from nitrobenzanilide ....	....	"	....	a. 240	Hübner & Retschy	B., 6, 1128	27, 78
Benzylidene aniline	$NPh : CHPh$	$C_{13}H_{11}N$	....	48-49	Tiemann and Piess	B., 15, 2029	44, 198
"	"	"	....	42	Cech	B., 11, 248	
Amidofluorene	$C_6H_3(NH_2).CH_2.C_6H_4$ =1.2.4;1.?	"	....	124-125	Strasburger	B., 17, 107	46, 754
"	"	"	....	123	"	B., 16, 2347	46, 329
Methyl carbazole	$(C_6H_4)_2N.Me$	"	....	187	Græbe & Aldnikron	A., 202, 23	38, 660
Benzenylamidophenylenamidine	$C_6H_3(NH_2).N : CPh.NH$	$C_{13}H_{11}N_3$	....	245	Stöver	B., 7, 1317	28, 271
"	"	"	....	240	Hübner	A., 208, 309	40, 1131
Methenyldipenyldiamine	$NPh : CH.NHPh$	$C_{13}H_{12}N_2$	a. 250	135-136	Weith	B., 9, 454	30, 205
"	"	"	....	136-137	Wallach	B., 15, 208	
"	"	"	....	137	Lellmann	B., 14, 2512	42, 503
"	"	"	....	137	Tobias	B., 15, 2449	
"	"	"	....	137-138	Wallach	A., 214, 233	44, 49
"	"	"	....	138-139	Wallach & Wüsten	B., 16, 146	
"	"	"	....	140	Pinner	B., 16, 358	
Benzylidenephenylhydrazine	$Ph.NH.N : CHPh$	"	....	152-5	Fischer	A., 190, 134	34, 309
Benzenylphenylamidine	$NH : CPh.NHPh$	"	....	111-112	....	A., 184, 350 ; 192, 31	
"	"	"	....	114-5-115	Bernthsen and Szymanski	B., 13, 919	
Phenylazotoluene	$Ph.N_2.C_6H_4.Me=1.4$	"	....	63 c.	Schultz	B., 17, 466	46, 903
Diamidofluorene ....	....	"	....	155-157 u.c.	Struve	B., 10, 76	32, 902
"	....	"	....	155-157	Schultz	B., 12, 236	36, 653
"	....	"	....	157	"	A., 203, 99	38, 814
Methyldiphenylamine	NPh_2Me	$C_{13}H_{13}N$	270 (528)	....	Girard and Vogt	C. R., 73, 627	24, 1060
"	"	"	290	Liquid	Bardy	C. R., 72, 751	24, 1197
"	"	"	290-295	....	Brühl	B., 12, 198	36, 499
"	"	"	282	....	....	A., 174, 181	
Benzylaniline	$Ph.NH.CH_2Ph$	"	310 ; 200-220 (50)	32	Fleischer	A., 138, 226	v., 868

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Benzylaniline	Ph.NH.CH ₂ Ph	C ₁₃ H ₁₃ N	....	33	Bernthsen and Trompeter	B., 11, 1760	
Benzhydramine	NH ₂ .CHPh ₂	"	295	Crystalline	Friedel & Balsohn	B. S. [2], 33, 587	40, 279
Phenyltoluidine	C ₆ H ₄ Me.NHPh=1.2	"	297-299	41	Girard and Willen	B. S. [2], 25, 248	30, 99
"	" = ?	"	330	....	De Laire, Girard, and Chapoteaut	B. S. [1866], 2, 360	v., 866
"	" =1.4	"	334	87	Hofmann	A., 132, 292	iv., 454
"	" "	"	307-308	87-88	Girard and Willen	B. S. [2], 25, 248	30, 98
" .....	" "	"	....	87	Buch	B., 14, 2345	
Amidodiphenylmethane	C ₆ H ₄ .NH ₂ .CH ₂ Ph=1.3	"	....	46	Becker	B., 15, 2092	44, 203
"	" =1.4	"	....	34-35	Basler	B., 16, 2718	46, 310
Amido-p-phenyltolyl	C ₁₂ H ₈ .Me.NH ₂	"	....	93-97	Carnelley	J. [1876], 419	29, 21
Base from aniline tailings ....	....	"	....	46.5-47.5	Jackson	B., 10, 960	32, 606
Diphenylguanidine	NH:C(NHPh) ₂	C ₁₃ H ₁₃ N ₃	....	147	Weith & Schroeder	B., 7, 937	28, 86
" .....	"	"	....	147	" "	"	"
" .....	"	"	....	146	Steiner	B., 7, 1246	28, 165
" .....	"	"	....	147	Forster	A., 175, 36	28, 465
" .....	"	"	....	147	Hofmann	B., 2, 688	
" .....	"	"	....	131	"	"	28, 86
Amidobenzene azotoluene	C ₆ H ₄ Me.N ₂ .C ₆ H ₄ .NH ₂ =1.4; 1.?	"	....	147	Nietzky	B., 10, 666	32, 454
Diamidodiphenylmethane	C ₁₃ H ₁₀ (NH ₂) ₂	C ₁₃ H ₁₄ N ₂	....	85	Doer	B., 5, 796	vii., 948; 26, 170
" .....	"	"	....	85	Praetorius	A., 196, 338	36, 319
Amidobenzylaniline	NH ₂ .C ₆ H ₄ .CH ₂ .NHPh.	"	....	88	Strakosch	B., 6, 1063	27, 80
Benzylidene phenyldiamine	NHPh.CHPh.NH ₂	"	....	115	Bernthsen and Szymansky	B., 13, 918	38, 639
Diethyl dihydroquinoline	C ₉ H ₇ Et ₂ N	C ₁₃ H ₁₇ N	255	....	Wischnegradsky	B. S. [2], 34, 339	40, 444
Tetramidodiphenylmethane	CH ₂ .C ₁₂ H ₆ (NH ₂) ₄	C ₁₃ H ₁₆ N ₄	....	161	Städel	A., 218, 339	44, 991
Octahydroacridine ....	....	C ₁₃ H ₁₇ N	320 (760)	84	Græbe	B., 16, 2831	46, 608
Methylbenzylpiperidine	C ₆ H ₅ N.Me.CH ₂ Ph	C ₁₃ H ₁₉ N	245	Liquid	Schotten	B., 15, 424	42, 982
Phenylhydrazine on cenanthaldehyde	PhN ₂ H.C ₇ H ₁₄	C ₁₃ H ₂₀ N ₂	240 (77)	l.-20	Reisenegger	B., 16, 663	44, 798
Ethylisoanylaniline	Ph.NEt.C ₆ H ₁₁	C ₁₃ H ₂₁ N	262	....	Hofmann	A., 74, 156	iv., 452
Propylene dipiperidine ....	....	C ₁₃ H ₂₆ N ₂	300-315	Liquid	Ladenburg	B., 15, 1148	42, 1194
Dicyanodiphenyl	CN.C ₆ H ₄ .C ₆ H ₄ .CN	C ₁₄ H ₈ N ₂	....	234	Dœbner	A., 172, 116	27, 893
Benzilam	=C ₄₂ H ₃₂ O ₂ N ₂ q. v.	C ₁₄ H ₉ N	....	105	Laurent	R. S., 19, 443	i., 546
Phenanthrenediimide ....	....	C ₁₄ H ₁₀ N ₂	....	a. 285	....	M. C., 1, 146	
Anhydroxalanilide	(C ₆ H ₄ .N:C.NH) ₂ =(1.2) ₂	C ₁₄ H ₁₀ N ₄	....	n.f. 300	Hübner	A., 209, 370	42, 181
From diphenylamine ....	....	C ₁₄ H ₁₁ N	....	92-94	Besthorn & Fischer	B., 16, 74, 768	44, 600
Phenyl isoindole	Ph.C:CH.NPh	"	....	185	Möhlau	B., 14, 174	
Methylphenanthridine	C ₆ H ₅ Me.N:CH.C ₆ H ₄ Me.N=1.2	"	a. 360	170	Etard	C. R., 95, 730	44, 180
Anthramine (antracylamine)		"	....	236-237	Liebermann and Bollert	B., 15, 227	
" .....	"	"	....	236-237	Liebermann	A., 212, 56	42, 860
" .....	"	"	....	238	Roemer	B., 15, 224	42, 974
Hydrocyanarbodiphenylimide	NPh:C(CN).NHPh.	C ₁₄ H ₁₁ N ₃	....	137 u.c.	Laubenheimer and Göring	B., 13, 2155	40, 163
Phenylphenamidoacetonitril	NHPh.CHPh.CN	C ₁₄ H ₁₂ N ₂	....	82	Cech	B., 11, 247	34, 408
" .....	"	"	....	85	Tiemann and Piest	B., 15, 2028	44, 198
Benzenyl-o-tolylenediamine	C ₆ H ₅ Me.N:CPh.NH	"	....	232-233	Hübner and Kelbe	B., 8, 875	
" .....	"	"	....	238-240	Hübner	A., 208, 316	40, 1131
" .....	"	"	....	238-240	Meyer	I.D. Hanover, 1878	
" .....	"	"	....	240	Ladenburg and Rügheimer	B., 12, 952	36, 716

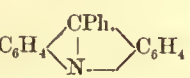
Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tolylphenylene amidine ...	$C_6H_4Me.C : N.C_6H_4.NH$ =1.4 ; 1.2	$C_{14}H_{12}N_2$	....	268	Hübner and Hane- mann	B., 10, 1712	34, 144
" "	"	"	....	268	Stoddard	B., 11, 294	34, 504
" "	"	"	....	268	Brückner	A., 205, 116	40, 93
Benzylene toluidine	$C_6H_4.Me.(N : CHPh)=1.2$	$C_{14}H_{13}N$	314 u.c.	....	Etard	C. R., 95, 730	44, 180
Benzylidene " ....	....	"	....	b. 100	Schiff	A., 140, 96 ; J. [1880], 566	
Ethyl carbazole	$C_{12}H_9EtN$	"	....	67-68	Græbe & Alderskron	A., 202, 24	38, 660
Anthramine dihydride	$C_6H_4 : C_2H_4 : C_6H_3.NH_2$	"	....	b. 100	Liebermann and Bollert	B., 15, 583	
(?)	Base	"	....	120-125	Schiff	A., 140, 96 ; J. [1880], 566	
Dibenzoylimidoimide	$NH : CPh.NH.CPh : NH$	$C_{14}H_{13}N_3$	....	108-109	Pinner and Klein	B., 11, 8	34, 492
Benzoylamidotoluylene- amidine	$C_6H_2Me(NH_2).N : CPh.NH$ =1.3.5.4	"	....	182-183	Kelbe	B., 8, 877	
" "	$C_6H_3Me.N : C(C_6H_4.NH_2).NH$ =1.3.4 ; 1.3	"	v. $C_{14}H_{15}ON_3$	227-229	Hübner	A., 210, 336	
" "	" "	"	....	228	Hübner and Schack	B., 10, 1712	34, 144
Acetophenone phenylhydra- zine	$Ph.N_2.CHPhMe$	$C_{14}H_{14}N_2$	....	105	Reisenegger	B., 16, 662	44, 798
Phenyl-phenylacetamidine	$Ph.CH_2.C(NH_2) : NPh$	"	....	128-129	Bernthsen	B., 9, 429	30, 96
" "	"	"	....	129-134	"	A., 184, 343	
Ethenyldiphenylamidine	$NPh : CMe.NHPh$	"	....	131-132	Biedermann	B., 7, 540	27, 808
" "	"	"	....	131-132	Lippmann	B., 7, 542	
" "	"	"	....	132	Bernthsen	A., 192, 1	34, 789
" "	"	"	....	137	Hofmann	C. R., 62, 729 ; B. S. [2], 6, 162	vi., 585
Ethenylisodiphenylamidine....	$NH : CMe.NPh_2$	"	....	62-63	Bernthsen	A., 192, 25	34, 789
Tolylbenzenylamidine	$C_6H_4Me.N : CPh.NH_2=1.4$	"	....	99-99.5	"	B., 9, 429 ; A., 184, 355	30, 97
Diamidostilbene	$C_{14}H_{10}(NH_2)_2$	"	....	170	Strakosch	B., 6, 330	26, 891
Azotoluene	$Me.C_6H_4.N_2.C_6H_4Me=(1.3)_2$	"	....	51	Goldschmidt	B., 11, 1625	36, 236
" ....	" "	"	....	54	Barsylowsky	B., 10, 2098	34, 300
" ....	" "	"	....	54-55	"	A., 207, 114	40, 432
"	" = (1.2) ₂	"	....	55	Hoogewerff and v. Dorp	B., 11, 1203	34, 973
" ....	" "	"	....	55	Schultz	B., 17, 467	46, 903
" ....	" (?)	"	....	137	Barsylowsky	B., 10, 2097	34, 300, 973
" ....	" (?)	"	....	137	Jaworsky	B. P., 8, 170	
" ....	" (?)	"	....	137	Werigo	B. P., 8, 310	
" ....	" = ?	"	....	137	Perkin	....	37, 553
"	" = (1.4) ₂	"	....	137	Melms	B., 3, 550	
" ....	"	"	....	141	Pierson & Heumann	B., 16, 1048	
" ....	"	"	....	142	" "	"	
" ....	"	"	....	142-143	Perkin	....	"
" ....	"	"	....	143	"	....	37, 554
" ....	"	"	....	143-144	Leeds	B., 14, 1384	42, 502
" ....	"	"	....	144	Barsylowsky	B., 6, 1209	27, 273
" ....	"	"	....	144	"	B., 10, 2097	34, 300
" ....	"	"	....	144	"	A., 207, 103	40, 432
" ....	"	"	....	144-145	Petrew	B., 6, 556	26, 1027
" (polymer)	"	"	....	244-245	Barsylowsky	B., 10, 2097	34, 300
?	Base	"	....	71	Hofmann	B., 2, 649	vi., 258
Cyananiline ....	....	$C_{14}H_{14}N_4$	....	210-220	"	A., 66, 129 ; 73, 180	1, 160 ; 2, 300 ; iv., 442
Ethylidiphenylamine....	$NEtPh_2$	$C_{14}H_{15}N$	295-297	....	Girard	B. S., 23, 3	
Benzyltoluidine	$C_6H_4Me.NH.CH_2Ph$	"	355-360	....	De Lairè, Girard, and Chapoteant	B. S. [1866], 360	v., 866
Ditolylamine	$NH(C_6H_4Me)_2=1.2 ; 1.?$	"	304-308	l. f. m.	Girard and Willm	B. S., 25, 251	
"	" = (1.3) ₂	"	319-320	Liquid	Cosack	B., 13, 1088	38, 714 2 x

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Ditolyllamine	$\text{NH}(\text{C}_6\text{H}_4\text{Me})_2=1.4; 1.?$	$\text{C}_{14}\text{H}_{13}\text{N}$	355-360	79	Gerber	B., 6, 446	
"	" = ?	"	323 u. c.	82	Girard and Willm	B. S. [2], 25, 250	30, 99
" ....	" "	"	....	145	Girard and Vogt	B. S. [2], 18, 67	25, 1026
Phenylxyldine	$\text{C}_6\text{H}_3\text{Me}_2.\text{NHPh}$	"	278-282 (485); 173 (15)	52	" "	B. S. [2], 18, 69	vii., 1210; 25, 1025
Dimethamidoazobenzene ...	$\text{Ph.N}_2.\text{C}_6\text{H}_4.\text{NMe}_2=?$	$\text{C}_{14}\text{H}_{13}\text{N}_3$	....	115	Griess	B., 10, 528	32, 456
Amidotolylbenzenylamidine	$\text{Ph.C}(\text{:NH}).\text{NH.C}_6\text{H}_3\text{Me}.$ NH_2	"	....	211.5-212	Bernthsen & Trompeter	B., 11, 1758	36, 147
Amidoazotoluene	$\text{Me.C}_6\text{H}_4.\text{N}_2.\text{C}_6\text{H}_3\text{Me}.\text{NH}_2$ $=1.3; 1.3.4$	"	....	80	Nietzki	B., 10, 1155	32, 767
"	" $=1.2; 1.3.4$	"	....	100	Schultz	B., 17, 470	
" ....	" "	"	....	100	Nietzki	B., 10, 663	34, 54
"	" $=1.4; 1.?$	"	....	115.5-116	Witt	B., 10, 1309	34, 53
" ....	" "	"	....	116.5	"	"	"
"	" $=1.3; 1.3.6$	"	....	118.5	Nölting and Witt	B., 17, 79	46, 742
"	" $=1.4; 1.2.4$	"	....	127	Nietzki	B., 10, 1156	32, 767
"	" $=1.4; 1.3.4$	"	....	127-128	"	B., 10, 665	32, 454
Ethylene diphenyldiamine ...	$\text{NHPh.CH}_2.\text{CH}_2.\text{NHPh}$	$\text{C}_{14}\text{H}_{16}\text{N}_2$	....	59	Hofmann	P. R. S., 9, 277	iv., 455
" "	"	"	....	63	Morley	B., 12, 1794	38, 112
Ethylidene "	$\text{CH}_3.\text{CH}(\text{NHPh})_2$	"	....	130	Hofmann	P. R. S.	iv., 457
Hydrazotoluene	$\text{Me.C}_6\text{H}_4(\text{NH})_2.\text{C}_6\text{H}_4\text{Me}$ $=1.4; 1.?$	"	....	124	Melms	B., 3, 553	vii., 1163
" ....	" "	"	....	124	Barsylowsky	A., 207, 104	
"	" $=(1.2)_2$	"	....	146	Schultz	B., 17, 467	46, 903
"	" $=1.2; 1.?$	"	....	165	Petrieve	B., 6, 556	26, 1028
"	" $=1.4; 1.4$	"	....	170-172	Barsylowsky	B., 8, 695	28, 1037
"	" "	"	$\text{C}_{23}\text{H}_{30}\text{N}_4 (?)$	171-172	"	A., 207, 107	40, 432
Ditolyldiazine	$\text{NH}_2.\text{N}(\text{C}_6\text{H}_4\text{Me})_2=(1.4)_2$	"	....	171-172	Lehne	B., 13, 1546	40, 41
Diamido-dibenzyl	$(\text{CH}_2.\text{C}_6\text{H}_4.\text{NH}_2)_2=(1.4)_2$	"	....	132	Stelling and Fittig	A., 137, 257	v., 870
Amidophenylamidotolyl- methane	$\text{NH}_2.\text{C}_6\text{H}_4.\text{CH}_2.\text{C}_6\text{H}_3\text{Me}.\text{NH}_2$	"	....	227-228	Klinger	B., 16, 943	
p-Tolidine	$\text{NH}_2.\text{C}_7\text{H}_6.\text{C}_7\text{H}_5.\text{NH}_2$	"	....	low temp.	Goldschmidt	B., 11, 1624	
p- " ....	"	"	....	103	Melms	B., 3, 554	vii., 1164
o- " ....	"	"	....	112	Petrieve	B., 6, 557	26, 1028
o- " ....	"	"	....	112	Schultz	B., 17, 467	46, 903
?- " ....	"	"	....	128-129	Petrieve	Z. C. [2], 6, 265	vii., 156, 1164
? " ....	"	"	....	122	Müller & Limpricht	A., 111, 140	vi., 329
Dimethyldiphenyltetrazone...	$\text{N}:\text{N.N}_2\text{Me}_2\text{Ph}_2$	$\text{C}_{14}\text{H}_{16}\text{N}_4$	....	133 d.	Fischer	A., 190, 172	34, 312
Amidobenzene azodimethyl- aniline	$\text{NH}_2.\text{C}_6\text{H}_4.\text{N}_2.\text{C}_6\text{H}_4.\text{NMe}_2$ $=1.4; 1.4$	"	....	182-183	Meldola	....	45, 107
Amidobenzene azoamido- xylene	$\text{NH}_2.\text{C}_6\text{H}_4.\text{N}_2.\text{C}_6\text{H}_2\text{Me}_2.\text{NH}_2$ $=1.4; 1.1.3.?$	"	....	163	"	....	43, 432
Diamidoazotoluene	$\text{N}_2:(\text{C}_6\text{H}_3\text{Me}.\text{NH}_2)_2=(1.4)_2$	"	....	159	Buckney	B., 11, 1453	34, 864
"	$\text{N}_2:\text{C}_{12}\text{H}_6\text{Me}_2(\text{NH}_2)_2$	"	....	183	Hofmann	B., 10, 218	32, 326
Diethylnaphthylamine	$\text{C}_{10}\text{H}_7.\text{NEt}_2$	$\text{C}_{14}\text{H}_{17}\text{N}$	290 u. c.	Liquid	B. E. Smith	....	41, 181
Di(amidobenzyl)amine	$(\text{NH}_2.\text{C}_6\text{H}_4.\text{CH}_2)_2.\text{NH}$	$\text{C}_{14}\text{H}_{17}\text{N}_3$	....	106	Strakosch	B., 6, 1060	27, 79
Hydrazotoluidine	$\text{N}_2\text{H}_2:(\text{C}_6\text{H}_3\text{Me}.\text{NH}_2)_2$ $=(2.4.1)_2$	$\text{C}_{14}\text{H}_{18}\text{N}_4$	....	180	Buckney	B., 11, 1453	34, 864
Diisobutylaniline	$\text{C}_6\text{H}_4.\text{C}_4\text{H}_9.\text{NHC}_4\text{H}_9$	$\text{C}_{14}\text{H}_{23}\text{N}$	268-271	....	Studer	A., 211, 240	
"	"	"	250-270	....	"	B., 14, 2186	
Tetraethyldiamidobenzene	$\text{C}_6\text{H}_4(\text{NEt}_2)_2=1.4$	$\text{C}_{14}\text{H}_{24}\text{N}_2$	280 u. c.	52	Lippmann and Fleissner	M. C., 4, 284; B., 16, 1421	44, 869, 1100
Myristonitril	$\text{C}_{13}\text{H}_{27}.\text{CN}$	$\text{C}_{14}\text{H}_{27}\text{N}$	226.5 (100)	19	Krafft and Stauffer	B., 15, 1730	42, 1274
Phenyl quinoline	$\text{C}_6\text{H}_3\text{Ph}.\text{CH}:\text{CH}.\text{CH}:\text{N}$ $=1.3.4$	$\text{C}_{15}\text{H}_{11}\text{N}$	....	108-109	Coste	B., 15, 562	42, 980
" "	$\text{C}_6\text{H}_4.\text{CH}:\text{CPh}.\text{CH}:\text{N}=1.2$	"	....	93	Friedländer and Gohring	B., 15, 557	"
" "	$\text{C}_6\text{H}_3.\text{CPh}:\text{CH}.\text{CH}:\text{N}=1.2$	"	....	84	Grimaux	C. R., 96, 584	44, 668
" "	$\text{C}_6\text{H}_4.\text{CH}:\text{CH}.\text{CPh}:\text{N}$	"	a. 300	83	Dœbner and Miller	B., 16, 1664	44, 1150

2 x 2

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Indole (from indigo)....	See C_8H_7N	$C_{16}H_{14}N_2$	....	52	Engler and Janecke	B., 9, 1416	31, 322
" " " " " " " "	"	"	....	52	Bayer	As., 7, 59	28, 773
" " " " " " " "	"	"	....	52	Nencki	B., 8, 337	28, 1039
" (from albumen) ....	"	"	....	85-86	Engler and Janecke	B., 9, 1416	31, 322
" " " " " " " "	"	"	....	89-91	Kühne	B., 9, 1416	
Indoline (diindole) ....	"	"	....	245	Schützenberger	C. R., 85, 147	32, 898
NH ₂ Me on phenanthrene-quinone	$C_{14}H_8(NMe)_2$	"	....	185-186	Zincké	B., 12, 1644	38, 48
From dicyanostilbene ....	"	"	....	208	Reimer	B., 13, 747	40, 48
Anhydroxaldiamidotolene	$(C_6H_3Me.N : C.NH)_2$	$C_{16}H_{14}N_4$	....	abt. 193	Hübner	A., 209, 373	42, 181
" " " " " " " "	"	"	....	193	Hübner & Rudolph	B., 8, 474	
Amidobenzeneazoamido- α -naphthalene	$NH_2.C_6H_4.N_2.C_{10}H_6.NH_2$ = (1.4) ₂	"	....	159-160	Meldola	....	43, 432
Dimethylanthrathamine	$C_{14}H_9.NMe_2$	$C_{16}H_{16}N$	....	155	Bollert	B., 16, 1638	44, 1140
Anhydrodiamidotoluylylene	$C_6H_4Me.C : N.C_6H_2Me_2.NH$ = 1.4 ; (1) ₄	$C_{16}H_{16}N_2$	....	217	Fricke	B., 10, 1713	34, 144
" " " " " " " "	"	"	....	217	Bückner	A., 205, 125	40, 94
" " " " " " " "	"	"	....	217	Hübner	A., 210, 333	42, 504
Azoethylbenzene	$N_2 : (C_6H_4Et)_2 = (1.2)_2$	$C_{16}H_{18}N_2$	....	47	Schultz	B., 15, 1540	42, 1062
" " " " " " " "	"	"	....	46.5 c.	"	B., 17, 473	48, 904
" " " " " " " "	" = (1.4) ₂	"	....	62	"	B., 15, 1540	
" " " " " " " "	"	"	a. 340	63 c.	"	B., 17, 475	"
Azoxylene	$N_2 : (C_6H_3Me_2)_2 = ?$	"	....	120	Werigo	Z. C. [1865], 315	v., 1058
" " " " " " " "	" = (? 1.3) ₂	"	....	126 c.	Schultz	B., 17, 476	
" " " " " " " "	" = ?	"	....	128	Samanoff	J. R. [1882], 327	44, 180
Diethylene diphenyldiamine	$(C_2H_4)_2N_2Ph_2$	"	300	148 ; 157 (?)	Hofmann	P. R. S., 9, 277 ; 10, 104	iv., 456
Ethenyl ditolylamidine	$Me.C \begin{matrix} \nearrow N.C_6H_4.Me \\ \searrow NH.C_6H_4.Me \end{matrix}$ = (1.2) ₂	"	Impure ?	69 (1)	Wallach	A., 214, 208 ; B., 16, 148	44, 48
" " " " " " " "	" = (1.4) ₂	"	....	117-118	"	B., 9, 1214	31, 92
" " " " " " " "	"	"	....	119.5-120.5	"	A., 214, 203	
" " " " " " " "	"	"	....	120	"	A., 214, 208 ; B., 16, 148	44, 48
" " " " " " " "	"	"	....	121-121.5	"	A., 184, 364	
" " " " " " " "	" = 1.4 ; 1.2	"	....	140	"	A., 214, 208 ; B., 16, 148	"
" " " " " " " "	" = 1.2 ; 1.4	"	....	142-143	"	" " "	"
" " " " " " " "	" = (1.2) ₂	"	....	134 ; 136	"	" " "	"
" " " " " " " "	"	"	....	140.5	Ladenburg	B., 10, 1262	34, 54
Cyanbenzylamine	$(C_6H_3.CH_2.NH_2)_2(CN)_2$	$C_{16}H_{18}N_4$	....	140	Strakosch	B., 5, 693	vii., 181 ; 25, 1026
Dimethylauiline azyline	$(N : C_6H_3.NMe_2)_2$	"	....	266	Lippmann and Fleissner	B., 15, 2138 ; M. C., 3, 705	44, 55, 185
" " " " " " " "	"	"	....	266	Lippmann & Lange	B., 13, 2137	
Diphenethylamine	$(Ph.CH_2.CH_2)_2NH$	$C_{16}H_{19}N$	335-337 (603)	....	Spica	G. I., 9, 555	38, 242
Diethylamidodiphenyl	$Ph.C_6H_4.NEt_2 = 1.4 (?)$	"	....	b. 100	Hofmann	P. R. S., 12, 389	v., 1055
Ethyl ditolylamine	$(Me.C_6H_4)_2NEt = (1.4)_2 (?)$	"	255-260 (20)	....	Girard	B. S. [2], 24, 120	29, 264
Dixylylamine	$(C_6H_3Me_2)_2NH$	"	d. 210	Liquid	Pieper	A., 151, 131	vi., 1133
" " " " " " " "	"	"	305-315 ; 205 (i. v.)	Liquid	Girard and Vogt	B. S. [2], 18, 69	25, 1025 ; vii., 1210
" " " " " " " "	"	"	305-315 ; 205 (i. v.)	162	" "	" "	" "
Amidoazoxylene	$C_6H_3Me_2.N_2.C_6H_2Me_2.NH_2$	$C_{16}H_{19}N_3$	....	215	Nietzki	B., 13, 471	38, 553
Base ....	"	"	....	215	Möhlau	B., 16, 2729	48, 306
" " " " " " " "	$C_{12}H_8Me_4N_2$	$C_{16}H_{20}N_2$	....	173	Wichelhaus	B., 14, 1953	42, 58
Tetramethylbenzidine	$(C_6H_4.NMe_2)_2 = (1.4)_2$	"	a. 360	195	Michler & Pattinson	B., 14, 2162	42, 199
Diethylbenzidine	$(C_6H_4)_2N_2H_4Et_2 = (1.4)_2$	"	....	65	Hofmann	A., 115, 365	
Ethylene ditolylidiamine	$C_2H_4(NH.C_6H_4.Me)_2 = (1.4)_2$	"	....	97.5	Gretillat	J. [1873], 698	
Diethylphenyl tetrazone	$PhEtN.N : N.NEtPh$	$C_{16}H_{20}N_4$	....	108 d.	Fischer and Erhard	A., 199, 327	38, 243

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diethylene diphenylenetetramine	$\text{NH}_2\text{C}_6\text{H}_4\text{N} : (\text{C}_2\text{H}_4)_2 : \text{N} \cdot \text{C}_6\text{H}_4\text{NH}_2$	$\text{C}_{16}\text{H}_{20}\text{N}_4$	....	221	Morley	B., 12, 1796	38, 112
Tetramethyl diamidodiphenylamine	$\text{NH}(\text{C}_6\text{H}_4\text{NMe}_2)_2 = 1.4; 1.?$	$\text{C}_{16}\text{H}_{21}\text{N}_3$	....	119 u. c.	Bindschedler	B., 16, 866	
Tetramethyl diphenyldiamine	$\text{PhMe}_2\text{N} : \text{N} \cdot \text{Me}_2\text{Ph}$	$\text{C}_{16}\text{H}_{22}\text{N}_2$	....	173	Lippmann & Lange	B., 13, 2139	40, 161
Diamidotetramethylbenzidine	$\text{C}_{12}\text{H}_6(\text{NMe}_2)_2(\text{NH}_2)_2$	$\text{C}_{16}\text{H}_{22}\text{N}_4$	....	168	Michler & Pattinson	B., 14, 2164	42, 200
Tetrahydrodicollidine	....	$\text{C}_{16}\text{H}_{26}\text{N}_2$	255-260	....	Hantzsch	A., 215, 46	44, 84
Diisoamylaniline	$\text{Ph} \cdot \text{N}(\text{C}_5\text{H}_{11})_2$	$\text{C}_{16}\text{H}_{27}\text{N}$	275-280	....	Hofmann	A., 74, 156	iv., 450
Paradiconine	....	"	210	....	Schiff	A., 166, 100	25, 417
"	....	"	210	....	"	B., 5, 42	vii., 381
Imidocaprilonitril	$[\text{C}_6\text{H}_{13}\text{CH}(\text{CN})]_2\text{NH}$	$\text{C}_{16}\text{H}_{29}\text{N}_3$	....	s. 5-6	Erlenmeyer & Siegel	A., 177, 134	28, 1017
Palmonitril	$\text{C}_{15}\text{H}_{31}\text{CN}$	$\text{C}_{16}\text{H}_{31}\text{N}$	251.5 (100)	31	Kraft and Stauffer	B., 15, 1730	42, 1274
Diocetylamine	$\text{NH}(\text{C}_8\text{H}_{17})_2$	$\text{C}_{16}\text{H}_{35}\text{N}$	a. 220	....	Schiff (?)	A., 166, 87	
"	"	"	270-280	Liquid	Merz and Gasiorowski	B., 17, 636	46, 984
"	$\text{NH}[(\text{CH}_2)_7\text{CH}_3]_2$	"	297-298	36.5	"	B., 17, 631	"
Cyanopyrene	$\text{C}_{16}\text{H}_9\text{CN}$	$\text{C}_{17}\text{H}_9\text{N}$	....	149-150	Goldschmidt and Wegscheider	M. C., 4, 253	
Anthraquinoline	$\text{C}_6\text{H}_4 : \text{C}_2\text{H}_2 : \text{C}_6\text{H}_2\text{N} : \text{CH} \cdot (\text{CH})_2$	$\text{C}_{17}\text{H}_{11}\text{N}$	446 (728)	170	Græbe	B., 12, 1418 ; A., 201, 344	38, 262
Benzenyl-β-naphthylamidine	$\text{C}_{10}\text{H}_6\text{N} : \text{CPh} \cdot \text{NH}$	$\text{C}_{17}\text{H}_{12}\text{N}_2$	....	210	Ebell	B., 7, 1319	28, 272
"	"	"	....	210	Hübner	A., 208, 328	40, 1132
Benzyldine quinaldine	$\text{C}_9\text{H}_6\text{N} \cdot \text{CH} : \text{CHPh}$	$\text{C}_{17}\text{H}_{13}\text{N}$	....	99-100	Jacobsen & Reimer	B., 16, 2606	46, 336
"	"	"	....	100	Wallach & Wüsten	B., 16, 2008	44, 1097
Benzenylnaphthylamidine	$\text{C}_{10}\text{H}_7\text{NH} \cdot \text{CPh} : \text{NH}$	$\text{C}_{17}\text{H}_{14}\text{N}_2$	....	141	Bernthsen and Trompeter	B., 11, 1757	36, 147
Benzyl-α-naphthylamine	$\text{C}_{10}\text{H}_7\text{NH} \cdot \text{CH}_2\text{Ph}$	$\text{C}_{17}\text{H}_{15}\text{N}$	....	66-67	....	B. S., 20, 68	
Tolyl-α-naphthylamine	$\text{C}_{10}\text{H}_7\text{NH} \cdot \text{C}_6\text{H}_4\text{Me} = 1.4$	"	290 (528) ; 236 (15)	79	Girard and Vogt	C. R., 73, 627	vii., 846 ; 25, 1025
" -α-	"	"	360 (528) ; 236 (15)	78	"	B. S. [2], 18, 68 ; B., 14, 2344	25, 1025
" -α-	"	"	....	78.5-79	Friedländer	B., 16, 2091	46, 80
" -α-	"	"	....	94-95	"	"	"
" -β-	"	"	....	95-96	"	"	"
" -β-	"	"	....	102-103	Merz and Weith	B., 14, 2345	42, 179
" -β-	"	"	....	102-103	Friedländer	B., 16, 2090	46, 80
Azotoluene naphthylamine	$\text{NH}_2 \cdot \text{C}_{10}\text{H}_6\text{N}_2 \cdot \text{C}_6\text{H}_4\text{Me} = 1.4$	$\text{C}_{17}\text{H}_{15}\text{N}_3$	....	145	Weselsky & Benedikt	B., 12, 229	
Dicyanoditolylguanidine	$\text{NH} : \text{C}(\text{NH} \cdot \text{C}_6\text{H}_4\text{Me}) + 2 \text{CN}$ $= (1.2)_2$	$\text{C}_{17}\text{H}_{17}\text{N}_6$	....	173.5-174.5 u. c.	Berger	B., 12, 1855	38, 244
Pentenyl diphenyl diamine	$\text{N}_2\text{HPh}_2(\text{C}_5\text{H}_9)''$	$\text{C}_{17}\text{H}_{20}\text{N}_2$	....	111	Hofmann	P. R. S., 15, 55	vi., 922
Isoamylidiphenylamine	$\text{NPh}_2(\text{C}_5\text{H}_{11})$	$\text{C}_{17}\text{H}_{21}\text{N}$	330-340	....	Girard	B. S., 23, 3	
Dixylylguanidine	$\text{NH} : \text{C}(\text{NH} \cdot \text{C}_6\text{H}_3\text{Me}_2)_2$ $= (1.2.4)_2$	$\text{C}_{17}\text{H}_{21}\text{N}_3$	....	156-158	Hofmann	B., 9, 1296	31, 92
Tetramethyldiamidodiphenyl methane	$\text{CH}_2(\text{C}_6\text{H}_4\text{NMe}_2)_2$	$\text{C}_{17}\text{H}_{22}\text{N}_2$	....	91	Michler and Moro	B., 12, 1170	36, 921 ; 38, 40
"	"	"	....	91	Michler & Salathé	B., 12, 1789	
"	"	"	....	90	Doebner	B., 12, 811	36, 787
"	"	"	....	90	Fischer	A., 206, 95	40, 587
"	"	"	....	88	Hanhart	B., 12, 680	
Benzaldipiperyl	$\text{CHPh}(\text{C}_6\text{H}_{10}\text{N})_2$	$\text{C}_{17}\text{H}_{26}\text{N}_2$	....	80-81	Lann	B., 17, 679	46, 1011
Cetyl cyanide	....	$\text{C}_{17}\text{H}_{33}\text{N}$	....	Liquid	Heintz	J. [1857], 445	
"	$\text{C}_{16}\text{H}_{33}\text{CN}$	"	....	53 (?)	Köhler	J. [1856], 580	i., 841
Dicyanopyrene	$\text{C}_{16}\text{H}_8(\text{CN})_2$	$\text{C}_{18}\text{H}_8\text{N}_2$	a. 300	Solid	Goldschmidt and Wegschneider	M. C., 4, 255	44, 1004
α-Diquinolyline	....	$\text{C}_{18}\text{H}_{12}\text{N}_2$	a. 400	175.5 u. c. ; a. sb. 176-177	Weidel	M. C., 2, 491	42, 69
β-	....	"	....	191	Japp and Graham	....	39, 174
β-	....	"	....	192.5 u. c.	Weidel	M. C., 2, 501	42, 70
Diquinoline	....	$\text{C}_{18}\text{H}_{14}\text{N}_2$	....	114	Claus	B., 14, 1940	42, 215
?	$\text{NPh} \cdot \text{C}_6\text{H}_4 \cdot \text{NPh} (?)$	"	....	150	Griess	B., 9, 132	29, 932

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Triphenylamine	$(C_6H_5)_3N$	$C_{18}H_{15}N$	140-150	Liquid	Gössmann	A., 100, 57	iv., 453
" ....	"	"	....	126-127	Merz and Weith	B., 5, 646	vii., 945; 26, 73
" ....	"	"	....	127	" "	B., 6, 1514	27, 377
Phenyl amidoazobenzene ...	$Ph.N:N.C_6H_4.NHPh$	$C_{18}H_{15}N_3$	....	82	Witt	B., 12, 259	35, 186
Azobenzene + benzene ...	$C_{12}H_{10}N_2 + C_6H_6$	$C_{18}H_{16}N_2$	....	38 in sealed tube	Schmidt	B., 5, 1107	vii., 148; 26, 499
Diphenyl diamidobenzene	$C_6H_4(NHPh)_2 = 1.3$	"	....	95	Calm	B., 16, 2796	46, 591
" "	" = 1.4	"	....	152	"	B., 16, 2806	"
Amidobenzene azodiphenylamine	$NH_2.C_6H_4.N_2.C_6H_4.NHPh$	$C_{18}H_{16}N_4$	....	90-91	Meldola	....	43, 441
Azodibenzene phenylenediamine	$PhN:N.C_6H_4.N:N.C_6H_3(NH_2)_2$	$C_{18}H_{16}N_6$	...	185	Griess	B., 16, 2034	44, 1103
Azobenzene phenylene diamine benzene	$PhN:N.C_6H_2(NH_2)_2.N:NPh = ?1.3.?$	"	....	250	"	B., 16, 2029	44, 1102
Xylol- α -naphthylamine	$C_{10}H_7.NH.C_6H_3Me_2$	$C_{16}H_{17}N$	243-245 (15)	Liquid	Girard and Vogt	B. S. [2], 18, 68	vii., 846, 1210; 25, 1025
Propyl piperidine ....	....	"	149-150	....	Ladenburg	B., 14, 1348	
Isopropyl piperidine....	....	"	149-150	....	"	"
Phenyl- α -imidopropionitril....	$NH(CH_2Ph.CH.CN)_2$	$C_{18}H_{17}N_3$	....	105	Erlenmeyer & Lipp	A., 219, 179	44, 992
" - α- " ....	"	"	....	108	" "	"	"
Triamidodiphenyl benzene (?)	$C_{18}H_{11}(NH_2)_3$	" (?)	....	169-5	Schmidt & Schultz	A., 203, 118	40, 435
Acetamide on phenyl-cyanamide	....	$C_{18}H_{17}N_6$	....	232-234	Berger	B., 14, 1257	40, 810
Hydrodiquinoline ....	....	$C_{18}H_{18}N_2$	....	161-162	Königs	B., 14, 100	
Benzenylisoamyl phenyleneamidine	$C_6H_4.N:CPh.N.C_5H_{11}$	$C_{18}H_{20}N_2$	....	270	Hübner and Sennewald	B., 9, 776	30, 310
Tetrahydroquinolinetetrazone	$C_9H_9N.N_2.NC_9H_9$	$C_{18}H_{20}N_4$	....	160	Hoffmann & Königs	B., 16, 731	44, 1144
Diethylenedi-p-tolyldiamine	$C_6H_4Me.N.(CH_2)_2.N(C_6H_4Me).(CH_2)_2 = (1.4)_2$	$C_{18}H_{22}N_2$	360	189-190	Demole	A., 173, 139; As., 7, 94	
Diethylidinedi-p-tolyldiamine	....	"	....	60	Schiff	A., 140, 95	
Azomesitylene	$Me_3.C_6H_2.N_2.C_6H_2Me_3 = 1.3.5.6; 6.5.3.1$	"	....	75 c.	Schultz	B., 17, 477	46, 904
Diamidotetramethyl benzidine	$C_{12}H_6(NH_2)_2(NMe_2)_2$	$C_{16}H_{22}N_4$	....	168	Michler & Pattinson	B., 17, 118	46, 748
Ethylene diphenyl diethyldiamine	$(C_2H_4)'Ph_2Et_2N_2$	$C_{16}H_{24}N_2$	....	70	Hofmann	J. [1859], 389	iv., 455
Tetramethyldiamidodiphenylethane	$(CH_2.C_6H_4.NMe_2)_2$	"	a. 300	50	Schoop	B., 13, 2197	40, 160
Tetramethyldiamidoditolyl....	$(C_6H_3Me.NMe_2)_2 = (1.4)_2$	"	....	57	Michler & Pattinson	B., 14, 2167	
" "	" = (1.2) ₂	"	....	80	Michler & Sampaio	B., 14, 2172	42, 178
" " ....	"	"	....	190	" "	B., 14, 2170	42, 177
Alkaloid (?) ....	....	$C_{18}H_{23}N_5$	....	70	....	J. R., 13, 507	
" " ....	....	"	....	61-62	Strecker	A., 130, 220	
Stearonitril	$C_{17}H_{35}.CN$	$C_{18}H_{35}N$	274.5 c.(100)	41	Krafft and Stauffer	B., 15, 1730	42, 1274
Trihexylamine	$N(C_6H_{13})_3$	$C_{18}H_{39}N$	260	....	Petersen and Gössmann	A., 101, 311; 102, 312	
Phenylacridine		$C_{19}H_{13}N$	a. 360	181	Bernthsen & Bender	B., 16, 1810	44, 1133
" " ....	"	"	....	182-183	Bernthsen	B., 15, 3012	44, 580
" " ....	"	"	....	182-183	"	A., 192, 19; B., 10, 1235	32, 886; 34, 789
Benzenyl diphenylene amidine	$Ph.C_6H_3.NH.CPh:N = 1.4.?$	$C_{19}H_{14}N_2$	....	197-198	Lüddens	B., 8, 873	28, 1258
Diphenyl methylene aniline	$Ph_2C:N.Ph$	$C_{19}H_{15}N$	a. 360	109 u. c.	Pauly	A., 187, 201	32, 614
Benzylidene diphenylhydrazine	$NPh_2.N:CHPh$	$C_{19}H_{16}N_2$	....	122	Fischer	A., 190, 179	34, 313
Benzenyl isodiphenyl amidine	$NPh_2.CPh:NH$	"	....	111.5-112	Bernthsen	B., 10, 1236	32, 886
" " " ....	"	"	....	112	"	A., 192, 4	34, 788

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Benzenyl diphenyl amidine...	NHPh.CPh : NPh	$C_{19}H_{16}N_2$	....	144	Wallach and Hoffmann	B., 8, 313	28, 1031
" " "	"	"	....	144	Dœbner	B., 15, 233	42, 957
Triphenyl amidomethane	$NH_2.CPh_3$	$C_{19}H_{17}N$	....	102	Nauen	B., 17, 442	48, 899
" "	"	"	d.	103	Hemilian & Silberstein	B., 17, 742	48, 1032
" " ....	"	"	....	105	Elbs	B., 16, 1277	44, 1000
Benzyl diphenylamine	NPh.CH ₂ Ph	"	....	86.5-87	Bernthsen & Trompetter	B., 11, 1761	36, 157
" " ....	"	"	....	87	Meldola	B., 14, 1385	42, 502
" "	"	"	240 (i. v.)	95	Willm and Girard	B., 8, 1194	
Amidotriphenyl methane	$CHPh_2.C_6H_4.NH_2$	"	....	83-84	Fischer and Roser	B., 13, 675 ; A., 206, 155	38, 661
Phenylamidodiphenylmethane	$CH_2Ph.C_6H_4.NHPh.$	"	....	abt. 89	Meldola	....	41, 199
α -Triphenyl guanidine	NPh : C(NHPh) ₂	$C_{19}H_{17}N_3$	....	141	Hofmann	B., 2, 456	
α- " " ....	"	"	....	142	Merz and Weith	Z. C. [2], 4, 513, 609	
α- " " ....	"	"	....	142-143	" "	B., 2, 621	vi., 656
α- " " ....	"	"	....	145	Buff	B., 2, 499	vii., 583
α- " " ....	"	"	....	143	Landgrebe	B., 11, 973	
α- " " ....	"	"	....	143	Forster	A., 175, 33	28, 465
α- " " ....	"	"	....	143	Weith	B., 7, 13	
α- " " ....	"	"	....	143	"	B., 10, 358	32, 448
β - " "	NH : C(NHPh).NPh ₂	"	....	131	Weith & Schroeder	B., 8, 294	28, 771
Carbotriphenyltriamine	NPh : C(NHPh).C ₆ H ₄ .NH ₂ =1.4	"	....	193	Michler and Walder	B., 14, 2174	
" " ....	"	"	....	195	Weith	B., 10, 358	32, 448
" " ....	"	"	....	198	"	B., 12, 104	36, 462
Diamidotriphenyl methane....	Ph.CH(C ₆ H ₄ .NH ₂) ₂	$C_{19}H_{18}N_2$	....	124-125	Bötttinger	B., 11, 841	
" " ....	"	"	....	139	O. Fischer	B., 13, 668 ; A., 206, 147	38, 662
" " ....	"	"	....	139	Dœbner	B., 15, 236	
" "	" + C ₆ H ₆	"	....	104-105	Bötttinger	B., 12, 977	36, 716
" " ....	"	"	....	106	O. Fischer	B., 13, 669	38, 662
" " ....	"	"	....	105-106	Dœbner	B., 15, 236	
" "	" + aq.	"	....	abt. 67	Bötttinger	B., 11, 276, 840	34, 506
Benzenyldiphenylazidine	NHPh.NH.CPh : N.NHPh	$C_{19}H_{18}N_4$	....	170	Pinner	B., 17, 184	48, 743
α -Azobenzene phenylene diaminetoluene	Ph.N ₂ .C ₆ H ₂ (NH ₂) ₂ .N ₂ .C ₆ H ₄ Me=1.(i) ₃ ; 1.4	$C_{19}H_{18}N_6$	....	192	Griess	B., 16, 2030	44, 1102
γ- " " ....	"	"	....	214	"	"	44, 1103
β- " " ....	"	"	....	225	"	"	44, 1102
Triamidotriphenyl methane (pseudoleucaniline)	$CH(C_6H_4.NH_2)_2 = 1.3 ; (i)_2$	$C_{19}H_{19}N_3$	....	148	O. Fischer	B., 15, 678	
" " ....	"	"	....	150	Fischer and Ziegler	B., 13, 673	38, 662
" "	"	"	+ C ₆ H ₆	145	" "	"	"
" "	$CH(C_6H_4.NH_2)_2 = 1.2 ; (i)_2$	"	....	165	Renouf	B., 16, 1305	44, 981
" (pseudoleucaniline)	" = 1.4 ; (i) ₂	"	....	180	Græbe	B., 12, 2242	
Cinchen ....	....	$C_{19}H_{20}N_2$	....	123-125	Koenigs	B., 14, 1854	42, 224
Carbodipropyl phenylimide	$C(:N.C_6H_4.Pr^a)_2 = (1.4)_2$	$C_{19}H_{22}N_2$	....	168	Francksen	B., 17, 1228	46, 1009
Isoamyl ditolylamine	$C_5H_{11}.N : (C_6H_4.Me)_2 = (1.4)_2$	$C_{19}H_{25}N$	290-300 (15)	....	Girard	B. S. [2], 24, 120	29, 264
Dimesityl guanidine....	NH : C(NH.C ₆ H ₂ .Me ₃) ₂ = (1.3.5) ₂	$C_{19}H_{25}N_3$	....	218	Eisenberg	B., 15, 1014	42, 956
Dipropyl phenyl guanidine....	NH : C(NH.C ₆ H ₄ .Pr ^a) ₂ = (1.4) ₂	"	....	113	Francksen	B., 17, 1226	46, 1008
Tetramethyldiamidodimethyl diphenylmethane	CMe ₂ (C ₆ H ₄ .NMe ₂) ₂	$C_{19}H_{26}N_2$	....	83	Hofmann & Martius	B., 6, 346	
" " ....	"	"	....	83	Dœbner	B., 12, 83	
β -Dinaphthylenamine	$C_{10}H_6.NH.C_{10}H_6$	$C_{20}H_{13}N$	....	157 ; 159 c.	Walder	B., 15, 2174	44, 209
Azonaphthalene	$C_{10}H_7.N : N.C_{10}H_7$	$C_{20}H_{14}N_2$	....	275	Klobukowsky	B., 10, 573	32, 623
" " ....	"	"	....	278 u. c.	Doer	B., 10, 772	"
" " ....	"	"	....	280	"	B., 3, 291	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Triphenyl acetonitril	CPh ₃ .CN	C ₂₀ H ₁₅ N	....	137	E. and O. Fischer	B., 11, 1599	36, 326
" "	"	"	....	127.5	"	A., 194, 260	36, 385
" "	Polymer	"	....	210	"	"	"
α - β -Dinaphthylamine	NH(C ₁₀ H ₇) ₂	"	....	110-111	Benz	B., 16, 18	44, 594
α-	"	"	....	111	Calm	B., 15, 615	42, 972
α-	"	"	....	111 u. c.	Landshoff	B., 11, 639	"
α -	"	"	310-315 (15)	113	Girard and Vogt	B. S. [2], 18, 68	vii., 846 ; 25, 1025
β-	"	"	....	170.5	Merz and Weith	B., 13, 1300	38, 813
β-	"	"	....	170-171	Benz	B., 16, 19	"
β-	"	"	....	170.5	Calm	B., 15, 611	42, 972
β-	"	"	....	170-171	Jacobsen	B., 14, 1791	"
Diazoamidonaphthalene	C ₁₀ H ₆ .N ₂ .C ₁₀ H ₇ .NH ₂	C ₂₀ H ₁₅ N ₃	....	100	Martius	Z. C. [2], 2, 137	vi., 848
Azodinaphthyl diamine	(C ₁₀ H ₇) ₂ NH.N ₂	"	....	130	Perkin and Church	16, 207	iv., 23
" "	"	"	....	136	Martius	Z. C. [2], 2, 138	vi., 849
" "	"	"	....	173-175	Lecco	B., 7, 1291	28, 169
Dibenzylidene p-phenylene diamine	....	C ₂₀ H ₁₆ N ₂	....	138-140	Ladenburg	B., 11, 599	34, 573
Phenyl benzaldehydine	C ₆ H ₄ (N : CHPh) ₂ = 1.2	"	....	133-134	Ladenburg and Engelbrecht	B., 11, 1653	36, 234
Amidoazonaphthalene	NH ₂ .C ₁₀ H ₆ .N ₂ .C ₁₀ H ₆ .NH ₂ (?)	C ₂₀ H ₁₆ N ₄	C ₂₀ H ₁₅ N ₃ (?)	183 c.	Schultz	B., 17, 477	"
Diphenylmethylenem-toluidine	....	C ₂₀ H ₁₇ N	a. 360	Liquid	Pauly	A., 187, 214	"
Methylhydrophenylacridine	C ₆ H ₄ .CHPh.C ₆ H ₄ .NMe	"	....	104	Bernthsen and Bender	B., 16, 1802	44, 1134
Triphenmethylmethylaniline	CPh ₃ .NHMe	C ₂₀ H ₁₉ N	....	73	Hemilian & Silberstein	B., 17, 741	46, 1033
Triphenethylamine	CPh ₃ .CH ₂ .NH ₂	"	....	116	Elbs	B., 17, 700	46, 1031
Acetylenetriphenyltriamine	NHPh.CH.NPh.CH.NHPh	C ₂₀ H ₁₉ N ₃	....	190	Sabanejeff	A., 178, 125	29, 56
Triamidodiphenyltolylmethane (leucaniline)	....	C ₂₀ H ₂₁ N ₃	....	100	Hofmann	J. [1862], 349	"
Azocymene	(C ₆ H ₃ MePr ₂) ₂ : N ₂ = (1.4. ?) ₂	C ₂₀ H ₂₆ N ₂	....	86	Werigo	Z. C. Ph. [1864], 721	vi., 303
Diethylaniline azyline	NEt ₂ .C ₆ H ₃ : N.N : C ₆ H ₃ NEt ₂	C ₂₀ H ₂₆ N ₄	....	170	Lippmann and Fleissner	M. C., 3, 710 ; B., 15, 2139	44, 55, 185
Dicymylamine	(MePrC ₆ H ₃) ₂ NH	C ₂₀ H ₂₇ N	a. 300 d.	....	Rossi	C. R., 51, 570	ii., 298
Tetretethyl benzidine	Et ₂ N.C ₆ H ₄ .C ₆ H ₄ .NEt ₂ = (1.4) ₂	C ₂₀ H ₂₈ N ₂	....	83	P. W. Hofmann	A., 115, 366	i., 545
" "	" "	"	....	85	Michler & Pattinson	B., 14, 2166	42, 200
Diamyline lepidine (lepaniline)	....	C ₂₀ H ₃₂ N ₂	175	....	Williams	16, 375	iii., 573
α -Compound	Base	C ₂₁ H ₁₀ N ₂	....	100	Kuhn	A., 122, 321	"
β-	"	"	....	190	"	A., 122, 322	"
β-	"	"	....	200	Ekman	A., 112, 170	"
Diphenylenetoluquinoxaline	C ₆ H ₃ Me.N : C.(C ₆ H ₄) ₂ .C : N	C ₂₁ H ₁₄ N ₂	....	212-213	Hinsberg	B., 17, 323	46, 1053
	= 1.3.4 ; (1.2) ₂						
Cyaphenine (cf. B., 15, 1494)	Ph.C . N . C . Ph || | || N—CPh—N	C ₂₁ H ₁₆ N ₃	....	231	Pinner and Klein	B., 11, 764	34, 864
"	....	"	....	231	" "	B., 11, 5	34, 491
"	....	"	....	229	Frankland & Evans	....	37, 563
"	....	"	s. a. 350	224	Cloez	A., 115, 27	iii., 449
Diphenyltoluquinoxaline	C ₆ H ₃ Me.N : CPh.CPh : N	C ₂₁ H ₁₆ N ₂	Distils	111	Hinsberg	B., 17, 323	46, 1053
	= 1.3.4						
Lophine	....	"	....	170	Kühn	C. C. [1861], 237 ; A., 122, 314	iii., 184, 734
"	....	"	....	230	"	"	"
"	....	"	....	266	Rau	B., 14, 444	"
"	....	"	....	260-270	Brunner	A., 151, 135	vi., 793
" (cf. B., 15, 2421)	NH.CPh : CPh.N : CPh	"	....	267-270	Japp and Robinson	B., 15, 1269	41, 328
" (cf. B., 13, 711 ; 15, 1494)	CPh : N.CHPh.N : CPh	"	....	275	Radziszewsky	B., 10, 71	32, 887

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
<i>a</i> -Dinaphthylguanidine ....	....	$C_{21}H_{17}N_3$	....	200	Perkin	A., 98, 239	
Dicyantriphenylguanidine ....	....	$C_{21}H_{17}N_6$	....	172-5	Landgrebe	B., 10, 1595	34, 217
"	....	"	....	172-173	"	B., 11, 974	
Amarine (<i>cf.</i> B., 15, 1270, 2410)	$NH.CPh : CPh.NH.CPh$	$C_{21}H_{18}N_2$	....	100	Fownes	A. 54, 365	i., 161
" (<i>cf.</i> B., 15, 1495, 2333)	$CHPh.NH.CHPh.N : CPh$	"	....	113	Bahrman	J. p., 27, 297	44, 799
Hydrobenzamide (<i>cf.</i> B., 15, 1495)	$CHPh(N : CHPh)_2(?)$	"	<i>cf.</i> B., 15, 1270	110	Laurent	A. 21, 131	iii., 183
<i>p</i> -Tolylbenzyltolyleneamidine	$C_6H_4Me.N.C_6H_3Me.N : CPh$ =1.4; 1.4.2 or 3	"	....	165-166; a. f. 160	Lellmann	B., 15, 833	42, 1061
Dibenzylidene- <i>m</i> -toluylendiamine	....	"	....	122-128	Schiff	A., 140, 98	
Dibenzylidenetolylene diamine	$C_6H_3Me(N : CHPh)_2=1.1.2$	"	....	188-191	Ladenburg	B., 10, 1126	32, 753
"	"	"	....	195-5	"	B., 11, 591	34, 572
Triphenylmelamine	$C_3H_3Ph_3N_6$	$C_{21}H_{18}N_6$	....	162-163	Hofmann	B., 3, 267	
Benzenylditolylamidine	$C_6H_4Me.NH.CPh : N.C_6H_4$ Me=(1.4) ₂	$C_{21}H_{20}N_2$	....	131-132	Bernthsen	B., 9, 434	30, 97
<i>a</i> -Compound (<i>v.</i> , $C_{21}H_{10}N_2$)	Base	"	....	100	Kuhn	A., 122, 321	iii., 184
β- " "	"	"	....	190	"	A., 122, 322	
β- " "	"	"	....	200	Ekman	A., 112, 170	
Dibenzyltoluidine	$(Ph.CH_2)_2N.C_6H_4Me$	$C_{21}H_{21}N$	....	55	Cannizzaro	As., 4, 80	v., 866
Tribenzylamine	$(C_6H_5 : CH_2)_3N$	"	360 p.d.	91	"	C., 3, 397	i., 576
"	"	"	....	abt. 93	"	As., 4, 80	v., 866
"	"	"	....	91-3	Limpriht	A., 144, 307	vi., 337
"	"	"	....	91	Schöeller	B., 7, 1276	28, 258
"	"	"	....	92	Lieben	Z. C. [2], 6, 736	vii., 179
"	"	"	....	92	Frankland and Tompkins	....	37, 567
Tritolylamine (?)	$N(C_6H_4.Me)_3=(1.4)_3(?)$	"	....	165	Merz and Weith	B., 14, 2345	
Triphenmethyldimethylamine	$CPh_3.NMe_2$	"	....	97	Hemilian and Silberstein	B., 17, 746	46, 1033
Dimethylamidotriphenylmethane	$CHPh_2.C_6H_4.NMe_2$	"	....	132-133	Fischer	B., 11, 750	36, 53
"	"	"	....	132	"	A., 206, 114	40, 588
Phenyldi- <i>p</i> -tolylguanidine ....	....	$C_{21}H_{21}N_3$	....	73	Will & Bielschowski	B., 15, 1310	
Tri- <i>p</i> -tolylene triamine ....	....	"	....	216-220 d.	Perkins	....	37, 548
"- <i>p</i>- "	....	"	....	244-245	....	J. R., 13, 450	
Tri-(amidobenzyl)amine	$(NH_2.C_6H_4.CH_2)_3N$	$C_{21}H_{24}N_4$	....	136	Strakosch	B., 6, 1061	27, 79
Carbodiisobutylphenylimide	$C : N.C_6H_4.C_4H_9_2=(1.4)_2$	$C_{21}H_{26}N_2$	....	189	Pahl	B., 17, 1243	46, 1010
Diisobutylphenylguanidine	$NH : C(NH.C_6H_4.C_4H_9)_2$ =(1.4) ₂	$C_{21}H_{28}N_3$	....	173	"	B., 17, 1240	"
Dianhydrolupinine ....	....	$C_{21}H_{36}N_2$	220	Liquid	Baumert	A., 214, 372	44, 100
Triheptylidine diamine	$(C_7H_{14})_3N_2$	$C_{21}H_{42}N_2$	a. 400	....	Schiff	As., 3, 367	vi., 697
Methylamarine ....	....	$C_{22}H_{20}N_2$	....	172-174	Claus and Elbs	B., 13, 1418	38, 882
Ethylene- <i>a</i> -dinaphthylidamine	$C_2H_4(NH.C_{10}H_7)_2$	"	....	127	Reuter	B., 8, 23	28, 649
Tritolylguanidine	$Me.C_6H_4.N : C(NH.C_6H_4Me)_2$ =(1.2) ₃	$C_{22}H_{23}N_3$	....	100+	Girard	B., 6, 445	26, 912
"	"	"	....	130-131	Berger	B., 12, 1857	38, 244
"	"	"	....	123	Merz and Weith	Z. C. [1868], 610	vi., 657
"	"	"	....	125	Buff	B., 2, 500	
Cetyl aniline	$C_{16}H_{33}.NHPh$	$C_{22}H_{39}N$	....	42	Fridau	A., 83, 29	iv., 450
α -Naphthylmethenyldiphenyldiamine	$C_{10}H_7.C(NHPh) : NPh$	$C_{23}H_{18}N_2$	....	183-5	Boessneck	B., 16, 642	44, 808
Naphthyl diphenyl guanidine	$C_{10}H_7.N : C(NHPh)_2$	$C_{23}H_{19}N_3$	....	155	Tiemann	B., 3, 7	vii., 583
Dicyanohydrobenzamide	$CHPh(NH.CHPh.CN)_2$	$C_{23}H_{20}N_4$	....	55	Plöchl	B., 13, 2119	40, 168
Aribine ....	....	"	....	229	Rieth	I. D. Gottingen, 1861	

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Dimethylamine	$\text{CHPh.NMe.CPh:NMe:CPh}$	$\text{C}_{23}\text{H}_{22}\text{N}_2$	cf. B., 15, 2334	146	Claus and Elbs	B., 13, 1419	36, 882
Tetramethyldiamidotriphenyl methane	$\text{CHPh}(\text{C}_6\text{H}_4.\text{NMe}_2)_2$	$\text{C}_{23}\text{H}_{26}\text{N}_2$	...	102	E. and O. Fischer	B., 12, 798	36, 787
"	"	"	...	101	Döbner	B., 13, 2228	40, 166
"	"	"	...	101	"	B., 11, 2277	36, 787
"	"	"	...	97-98 u.c.	"	B., 11, 1239	34, 874
"	"	"	...	93-94	E. and O. Fischer	B., 12, 798	36, 788
"	"	"	...	b. 93	"	"	"
"	"	"	...	92-93	Fischer	B., 10, 1625	34, 52
Tetramethyltriamidotriphenylmethane	$\text{NH}_2.\text{C}_6\text{H}_4.\text{CH}(\text{C}_6\text{H}_4.\text{NMe}_2)_2$ =1.3; (1.?) ₂	$\text{C}_{23}\text{H}_{27}\text{N}_3$	...	130	E. and O. Fischer	B., 12, 803	36, 788
"	"	"	...	126	Fischer	B., 15, 683	42, 831
"	"	"	...	151-152	"	B., 14, 2527	"
Heptylidene diethyldiphenyldiamine	$(\text{C}_7\text{H}_{14})''\text{Et}_2\text{Ph}_2\text{N}_2$	$\text{C}_{23}\text{H}_{34}\text{N}_2$	215-220 p.d.	...	Hofmann	As., 3, 363	iv., 459
Azodiphenyl	$\text{C}_6\text{H}_4.\text{NPh:NPh.C}_6\text{H}_4=(1.4)_2$	$\text{C}_{24}\text{H}_{18}\text{N}_2$	...	249-250	Zimmermann	B., 13, 1962	40, 175
Acetophenone	$\text{CPh:N.CH}_2.\text{CPh:CH.CPh:CH}$	$\text{C}_{24}\text{H}_{19}\text{N}$	...	130	Engler and Heine	B., 6, 639	vii., 940; 26, 1036
Hydrazodiphenyl	$(\text{C}_6\text{H}_4.\text{NHPh})_2=(1.4)_2$	$\text{C}_{24}\text{H}_{20}\text{N}_2$	...	247	Zimmermann	B., 13, 1961	40, 175
α -Naphthylethylenediphenyldiamine	$\text{C}_{10}\text{H}_7.\text{CH}_2.\text{C}(\text{NPh})(\text{NHPh})$	"	...	130.5	Boessneck	B., 16, 642	44, 808
Hydroacridine	...	"	...	169	Græbe and Caro	A., 158, 278	vii., 26; 24, 711
Tetraphenyltetrazone	$\text{NPh}_2.\text{N:N.NPh}_2$	$\text{C}_{24}\text{H}_{20}\text{N}_4$	...	123 d.	Fischer	A., 190, 182	34, 313
α -Naphthyltolylphenylguanidine	$\text{C}_{10}\text{H}_7.\text{N:C}(\text{NHPh})(\text{N.C}_6\text{H}_4.\text{Me})$	$\text{C}_{24}\text{H}_{21}\text{N}_3$	...	b. 60	Tiemann	B., 3, 7	vii., 583
Cyanbenzine	$(\text{C}_6\text{H}_7\text{N})_3$	"	...	170-171	Frankland and Tompkins	...	37, 568
β -Dicyanotri-p-tolyl guanidine	$\text{C}_6\text{H}_4.\text{Me.N:C}(\text{NHC}_6\text{H}_4.\text{Me})_2$ + 2CN	$\text{C}_{24}\text{H}_{23}\text{N}_6$	...	184	Landgrebe	B., 11, 976	36, 54
α -Dicyanotri-o-tolylguanidine	"	"	...	141	Berger	B., 12, 1857	36, 244
Tricyantribenzyltriamine	$(\text{CH}_2\text{Ph})_3(\text{HN})_3(\text{CN})_3$	$\text{C}_{24}\text{H}_{24}\text{N}_6$	...	m.a. 33	Strakosch	B., 5, 695	vii., 182
Triphenethylamine	$(\text{PhCH}_2\text{CH}_2)_3\text{N}$	$\text{C}_{24}\text{H}_{27}\text{N}$	...	Liquid	Spica	G. I., 9, 555	38, 242
Pentamethyl-leucaniline	...	$\text{C}_{24}\text{H}_{29}\text{N}_3$	...	173	E. and O. Fischer and German	B., 12, 799; 16, 707	"
Pentamethyl paraleucaniline	...	"	...	115-116	Fischer and Körner	B., 16, 2907	46, 607
Dipropylaniline azyline	$\text{NPr}_2.\text{C}_6\text{H}_3:\text{N.N:C}_6\text{H}_3.\text{NPr}_2$	$\text{C}_{24}\text{H}_{34}\text{N}_4$	...	90	Lippmann & Fleissner	B., 15, 2140; M. C., 3, 711	44, 55, 185
Triethylamine	$\text{N}(\text{C}_2\text{H}_5)_3$	$\text{C}_{24}\text{H}_{51}\text{N}$	abt. 370	Liquid	Merz and Gasiorowski	B., 17, 636	46, 984
"	$\text{N}[(\text{CH}_2)_7.\text{CH}_3]_3$	"	365-367	Crystalline	"	B., 17, 633	"
Triphenmethyl aniline	Ph.NH.CPh_3	$\text{C}_{25}\text{H}_{21}\text{N}$	...	144.5	Hemilian and Silberstein	B., 17, 747	46, 1033
"	"	"	...	146	Elbs	B., 17, 703	46, 1031
Tetraphenyl guanidine	$\text{NH:C}(\text{NPh}_2)_2$	$\text{C}_{25}\text{H}_{21}\text{N}_3$	...	130-131	Weith	B., 7, 843	27, 1170
Diamidotriphenylmethane + benzene	$\text{CHPh}(\text{C}_6\text{H}_4.\text{NH}_2)_2 + \text{C}_6\text{H}_6$	$\text{C}_{25}\text{H}_{24}\text{N}_2$	...	106 d.	Fischer	B., 13, 668	38, 662
Tri-amidotriphenylmethane + benzene	$\text{C}_{19}\text{H}_{19}\text{N}_3 + \text{C}_6\text{H}_6$	$\text{C}_{25}\text{H}_{25}\text{N}_3$	...	145 p.d.	Fischer and Ziegler	B., 13, 673	"
Diethylamine	$\text{C}_2\text{H}_5.\text{Et}_2\text{N}$	$\text{C}_{25}\text{H}_{26}\text{N}_2$	...	110-115	Borodine	A., 110, 83	i., 162
Carboamidotetraimidobenzene	$(\text{NH}_2.\text{C}_6\text{H}_4.\text{NH})_4\text{C}=(1.4)_4$	$\text{C}_{25}\text{H}_{28}\text{N}_8$	...	138	Hübner	B., 10, 1718	34, 143
Tetramethyldiamidotolylphenylmethane	$\text{CHPh}(\text{C}_6\text{H}_3.\text{Me.NMe}_2)_2$ =(1.1.3) ₂	$\text{C}_{25}\text{H}_{30}\text{N}_2$	...	109	Fischer	B., 13, 809	38, 636
Hexamethyl-leucaniline	$\text{CH}(\text{C}_6\text{H}_4.\text{NMe}_2)_3$	$\text{C}_{25}\text{H}_{31}\text{N}_3$	...	250	E. and O. Fischer	B., 11, 2097	36, 236
Hexamethylparaleucaniline	...	"	...	173	Fischer and Körner	B., 16, 2904	46, 606
Dinaphthylene-phenylamine	$\text{C}_{10}\text{H}_6.\text{NPh.C}_{10}\text{H}_6$	$\text{C}_{26}\text{H}_{17}\text{N}$	...	144; a.f. 80	Walder	B., 15, 2176	44, 209
β -Dinaphthyl diamidobenzene	$\text{C}_6\text{H}_4.(\text{NH.C}_{10}\text{H}_7)_2=1.3$	$\text{C}_{26}\text{H}_{20}\text{N}_2$	...	126	Ruhemann	B., 14, 2654	42, 391
Dibenzylidene benzidine	$(\text{C}_6\text{H}_4.\text{N:CPhPh})_2=1.4$	"	...	231-232	Schiff	B., 11, 832	"
Bi-diphenmethylamine	$(\text{CHPh}_2)_2\text{NH}$	$\text{C}_{26}\text{H}_{23}\text{N}$	...	136	Friedel & Balsohn	B. S. [2], 33, 587	40, 279
Benzyltriphenmethylamine	$\text{Ph.CH}_2.\text{NH.CPh}_3$	"	...	110	Elbs	B., 17, 703	46, 1031
Triphenmethyltoluidine	$\text{C}_6\text{H}_4.\text{Me}(\text{NH.CPh}_3)=1.2$	"	...	142	Wittich	B., 17, 705	46, 1032

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Triphenylmethyltoluidine	$C_6H_4Me(NH.CPh_3)=1.4$	$C_{26}H_{23}N$	....	177	Wittich	B., 17, 706	46, 1032
Benzylphenylamidodiphenylmethane	$CH_2Ph.C_6H_4.NPh.CH_2Ph$	"	....	not definite	Meldola	....	41, 199
Methyldiphenylamineazyline	$(PhMeN.C_6H_4)_2:N_2$	$C_{26}H_{24}N_4$	....	150	Lippmann & Fleissner	M. C., 4, 788	46, 180
Tetramethyl diamido-propyltriphenylmethane	$C_6H_4Pr.CH(C_6H_4.NMe_2)_2$	$C_{26}H_{32}N_2$	....	118-119	O. Fischer	B., 12, 1689 ; A., 206, 139	38, 40
(Enanthylidene benzidine	$(C_6H_4.N:CH.C_6H_5)_2=(1.4)_2$	"	....	113-115	Schiff	B., 11, 832	
Cholesterylamine	$C_{26}H_{43}.NH_2$	$C_{26}H_{43}N$	....	104	Loebisch	B., 5, 514	vii., 329; 25, 808
Tetraphenylmelamine	$C_2H_3Ph_4N_6$	$C_{27}H_{22}N_6$	....	217	Hofmann	B., 7, 1738	28, 466
" " ....	"	"	....	217	Weith and Ebert	B., 8, 914	34, 301
Triethylene-p-tritolyltriamine	....	$C_{27}H_{33}N_3$	....	186	Gretillat	J. [1873], 698	
Tetraethyl diamidotriphenylmethane	$Ph.CH(C_6H_4.NEt_2)_2$	$C_{27}H_{34}N_2$	....	62	Dœbner	A., 217, 264	44, 861
Diphenanthrenazotide ....	....	$C_{25}H_{16}N_2$	....	a. 440	Sommaruga	M. C., 1, 159	
Dianthramine	$(C_{14}H_9)_2.NH$	$C_{28}H_{19}N$	....	n.f. 320	Bollert	B., 16, 1636	44, 1139
? ....	....	$C_{28}H_{21}N_3$	sb. 300	crystalline	Müller	A., 111, 153	
Diphenyl diisindole....	$CPh.NPh.CH.CPh.NPh.CH$	$C_{28}H_{22}N_2$	a. 360	181	Mohlau	B., 15, 2482	44, 342
Polydehydro-p-azotoluene	$(C_7H_6N:NC_7H_7)_2$	$C_{28}H_{26}N_4$	see C_7H_7N	244-245	Barsilowsky	B., 11, 2153	36, 237
Tolyltri-p-tolylene triamine	$(C_7H_6)_3''(C_7H_7)H_2N_3$	$C_{28}H_{27}N_3$	....	abt. 175 d.	Perkin	....	37, 552
Parahydrazotoluene ...	....	$C_{28}H_{30}N_4$	$C_{14}H_{16}N_2 (?)$	171-172	Barsilowsky	A., 207, 108	40, 432
Tetraethyldiamidodinaphthyl	$Et_2N.C_{10}H_6.C_{10}H_6.NEt_2$	$C_{28}H_{32}N_2$	a. 360	190	B. E. Smith.	....	41, 183
Trimesitylguanidine....	$C_6H_2Me_3.N:C(NH.C_6H_2Me_3)_2$ $= (6.1.3.5)_3$	$C_{28}H_{35}N_3$	....	225	Eisenberg	B., 15, 1014	
Dibutylaniline azyline	$Bu_2N.C_6H_3:N.N:C_6H_3.NBu_2$	$C_{28}H_{42}N_4$	....	158	Lippmann and Fleissner	M. C., 3, 713; B., 15, 2142	44, 55, 185
Succinic chloride on acetanilide	....	$C_{29}H_{28}N_4$	....	132-133	Hübner	B., 10, 2165	34, 407
Trinaphthalene diamine ....	....	$C_{30}H_{16}N_2$	....	d. 180	Saltzmann and Wichelhaus	B., 9, 1107	30, 528
? base	....	$C_{30}H_{36}N_2$	....	205	Borodin	B., 6, 1253	27, 273
Tricymylamine	$(C_6H_3MePr^a)_3N$	$C_{30}H_{39}N$	....	81-82	Rossi	As., 1, 143	ii., 298
Diphenyldiamidotriphenylmethane	$CHPh(C_6H_4.NHPh)_2$ $= 1.4; 1.4$	$C_{31}H_{26}N_2$	....	170; sf. m. b. 170	Meldola	....	41, 192
Triisobutylphenylguanidine	$Bu^{\beta}.C_6H_4.N:C(NH.C_6H_4.Bu^{\beta})_2=(1.4)_3$	$C_{31}H_{41}N_3$	....	163-164	Pahl	B., 17, 1241	46, 1010
Myricyleyanide	$C_{30}H_{61}.CN$	$C_{31}H_{61}N$	....	75	Pieverling	A., 183, 357	31, 587
Hydrazoindole	$C_{16}H_{13}N.NH.NH.C_{16}H_{13}N$	$C_{32}H_{26}N_4$	....	140	Nencki	B., 8, 725	26, 1206
Cholesteryl aniline	$Ph.NH.C_{26}H_{43}$	$C_{32}H_{49}N$	....	187	Walitzky	B., 11, 1937	36, 135, 376
Diamylaniline azyline	$[N:C_6H_3.N(C_6H_{11})_2]_2$	$C_{32}H_{50}N_4$	....	115	Lippmann and Fleissner	M. C., 3, 713; B., 15, 2142	44, 55
Hydroisonaphthalamide	$(C_{10}H_7.CH)_3N_2$	$C_{33}H_{24}N_2$	....	146-150	Battershall	Z. C. [2], 7, 673	25, 699
Tetraphenyltoluylene diguanidine	$C_6H_3Me[N:C(NHPh)_2]_2$	$C_{33}H_{30}N_6$	....	76	Tiemann	B., 3, 8	vii., 583
Cholesteryltoluidine	$C_6H_4Me.NH.C_{26}H_{43}$	$C_{33}H_{51}N$	....	172	Walitzky	B., 11, 1937	36, 135, 376
Octomethyltetramido tetraphenyl ethane	$[CH(C_6H_4.NMe_2)_2]_2$	$C_{34}H_{42}N_4$	300	90	Schoop	B., 13, 2199	40, 160
Dibenzylamine	$C_{21}H_{16}N_2(CH_2Ph)_2$	$C_{35}H_{30}N_2$	....	139-140	Claus and Elbs	B., 13, 1420	38, 882
" " ....	"	"	....	140	Claus and Lupp	B., 15, 2330	
Azophenine (cf. B., 8, 1028)	$(NPh_2)_2:N.C_6H_4.N:NPh=1.4$	$C_{36}H_{29}N_6$	....	236; 237	Witt	B., 10, 1311	
" " " " " " " "	"	"	....	236	"	B., 16, 1102	
Cholesteryl α -naphthylamine	$C_{10}H_7.NH.C_{26}H_{43}$	$C_{36}H_{61}N$	....	202	Walitzky	B., 11, 1937; B.S [2], 30, 535	36, 135, 376
Naphthoquinoline ....	....	$C_{39}H_{27}N_3$	251 (?)	50	Skraup	W. A., 83, 434	40, 920
Dinaphthylenamide	$C_{20}H_{12}:(NH)_2:C_{20}H_{12}$	$C_{40}H_{26}N_2$	....	157; 159 c.	Walder	B., 15, 2174	44, 209
? " " " " " " " "	Base	$C_{42}H_{36}N_4$	....	217	Hübner & Frerichs	B., 10, 1720	
Tricetylamine	$(C_{16}H_{33})_3N$	$C_{48}H_{99}N$	....	39	Fridau	A., 83, 25	i., 843
? " " " " " " " "	....	$C_{48}H_{109}N_{15}$	....	260 d.	Niederist	M. C., 3, 845	
Dimyricylamine	$(C_{30}H_{61})_2NH$	$C_{60}H_{123}N$	....	78	Pieverling	A., 183, 351	

9. CHP.

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Methylphosphine	PH ₂ Me	CH ₃ P	— 14 (758·5)	....	Hofmann	B., 4, 608	24, 835; vii., 954
"	"	"	c. 0 (1·75 ats.)	....	"	"	"
"	"	"	c. 10 (2·3–4 ats.)	....	"	"	"
"	"	"	c. 20 (4–4·5 ats.)	....	"	"	"
Dimethylphosphide	PMe ₂	C ₂ H ₆ P	250	....	Cahours & Hofmann	A., 104, 1	
Dimethylphosphine	PHMe ₂	C ₂ H ₇ P	25	Liquid	Hofmann	B., 4, 610	"
Ethyl phosphine	PH ₂ Et	"	25	Liquid	"	B., 4, 430	24, 715; vii., 953
Trimethyl phosphine ...	PMe ₃	C ₃ H ₉ P	40–42	....	Hofmann & Cahours	P. T. [1857], 583	iv., 608
Isopropyl phosphine	PH ₂ Pr ^β	"	41	Liquid	Hofmann	B., 6, 294	vii., 955; 26, 882
Diethyl phosphine	PHEt ₂	C ₄ H ₁₁ P	85	Liquid	"	B., 4, 433	24, 715; vii., 953
Methylisopropyl phosphine....	PHMePr ^β	"	78–80	Liquid	"	B., 6, 299	vii., 955; 26, 883
Isobutyl phosphine	PH ₂ ·(CH ₂ ·CHMe ₂)	"	62	Liquid	"	B., 6, 296	"
Isoamyl phosphine	PH ₂ ·(CH ₂ ·CH ₂ ·CHMe ₂)	C ₅ H ₁₃ P	106–107	Liquid	"	B., 6, 297	26, 882
Phenyl phosphine	C ₆ H ₅ ·PH ₂	C ₆ H ₇ P	160	....	Michaelis & Ananoff	B., 8, 499	28, 1205
" "	"	"	160–161	Liquid	Köhler & Michaelis	B., 10, 808	32, 450
Triethyl phosphine	PEt ₃	C ₆ H ₁₅ P	127·5	Liquid	Hofmann & Cahours	P. T. [1857], 583	iv., 610
" " "	"	"	128	....	Hofmann	B., 4, 207	
" " "	"	"	128	....	"	Z. C., 14, 364	
Diisopropyl phosphine	PHPr ^β ₂	"	118	Liquid	"	B., 6, 294	vii., 955; 26, 882
Benzyl phosphine	PH ₂ ·CH ₂ Ph	C ₇ H ₉ P	180	Liquid	"	B., 5, 101	25, 422; vii., 955
Tolyl phosphine	C ₆ H ₄ ·Me·PH ₂ =1·4	"	178	4	Michaelis & Paneck	A., 212, 233	42, 963
Isopropylisobutyl phosphine	PHPr ^β ·(CH ₂ ·CHMe ₂)	C ₇ H ₁₇ P	139–140	Liquid	Hofmann	B., 6, 300	26, 883; vii., 955
Dimethylphenyl phosphine....	C ₆ H ₅ ·PMe ₂	C ₈ H ₁₁ P	190	....	Czimatis	B., 15, 2016	44, 58
" " "	"	"	192 c.	Liquid	Michaelis & Ananoff	B., 8, 498; A., 181, 359	28, 1204
Octyl phosphine	PH ₂ ·(CH ₂) ₇ ·Me	C ₈ H ₁₉ P	184–187	Liquid	Möslinger	B., 9, 1006	30, 394
Diisobutyl phosphine	PH·(CH ₂ ·CHMe ₂) ₂	"	153	Liquid	Hofmann	B., 6, 296	vii., 955; 26, 882
Dimethyltolyl phosphine	C ₆ H ₄ ·Me·PMe ₂ =1·4	C ₉ H ₁₃ P	210	l. — 10	Czimatis	B., 15, 2014	44, 57
Triisopropyl phosphine	P·(CHMe ₂) ₃	C ₉ H ₂₁ P	....	Liquid	Hofmann	B., 6, 295	vii., 955
Ethylisopropylisobutyl phosphine	PEtPr ^β ·(CH ₂ ·CHMe ₂)	"	abt. 190	....	"	B., 6, 300	vii., 955; 26, 883
Diethylphenyl phosphine	Ph·PEt ₂	C ₁₀ H ₁₅ P	220	....	Czimatis	B., 15, 2016	44, 58
" " "	"	"	216–220	Liquid	Michaelis & Ananoff	B., 7, 1693	28, 468
" " "	"	"	220=221·9 c.	Liquid	"	B., 8, 494	28, 1204
Dimethylxylyl phosphine	C ₆ H ₃ Me ₂ ·PMe ₂	"	230	Liquid	Czimatis	B., 15, 2016	44, 58
Diisoamyl phosphine	PH·(CH ₂ ·CH ₂ ·CHMe ₂) ₂	C ₁₀ H ₂₃ P	210–215	Liquid	Hofmann	B., 6, 298	26, 882; vii., 955
Diethyltolyl phosphine	C ₆ H ₄ ·Me·PEt ₂ =1·4	C ₁₁ H ₁₇ P	240	Liquid	Czimatis	B., 15, 2016	44, 58
Phosphobenzene (diphenyl)	Ph·P : P·Ph	C ₁₂ H ₁₀ P ₂	....	145–150	Köhler & Michaelis	B., 10, 813	32, 451
Diphenyl phosphine	PHPh ₂	C ₁₂ H ₁₁ P	280	Liquid	Michaelis & Gleichmann	B., 15, 801	42, 1062
Diethylxylyl phosphine	C ₆ H ₃ Me ₂ ·PEt ₂	C ₁₂ H ₁₉ P	260	Liquid	Czimatis	B., 15, 2016	44, 58
Triisobutyl phosphine	P·(CH ₂ ·CHMe ₂) ₃	C ₁₂ H ₂₇ P	215	Liquid	Hofmann	B., 6, 296	vii., 955; 26, 882
Diphenylmethyl phosphine....	PPh ₂ Me	C ₁₃ H ₁₃ P	284	Liquid	Michaelis and Link	A., 207, 210	42, 306
Isobenzylphenyl phosphine....	PHPh·CH ₂ Ph (?)	"	C ₂₅ H ₂₄ P ₂ (?)	169–170; 170–171	Michaelis and Gleichmann	B., 15, 1962	44, 186

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Diphenylethyl phosphine	PPh ₂ Et	C ₁₄ H ₁₅ P	293	....	Michaelis and Link	A., 207, 214	42, 306
Dibenzyl phosphine	PH(CH ₂ Ph) ₂	"	....	205	Hofmann	B., 5, 103	25, 423 ; vii, 956
Isotolylbenzyl phosphine	PH(CH ₂ Ph)(C ₆ H ₄ Me)	"	C ₂₇ H ₂₈ P ₂ (?)	187	Michaelis and Gleichmann	B., 15, 1963	44, 186
Diethylnaphthyl phosphine	PEt ₂ .C ₁₀ H ₇	C ₁₄ H ₁₇ P	a. 360 p. d.	Liquid	Kelbe	B., 11, 1501	36, 68
Tri-isoamyl phosphine	P(CH ₂ .CH ₂ .CHMe ₂) ₃	C ₁₅ H ₃₃ P	abt. 300	Liquid	Hofmann	B., 6, 298	26, 882 ; vii., 955
Triphenyl phosphine	PPh ₃	C ₁₈ H ₁₅ P	a. 360 in CO ₂	75-76	Michaelis and Gleichmann	B., 15, 802	42, 1062
Isobenzylphenyl phosphine....	C ₁₃ H ₁₃ P (?)	C ₂₅ H ₂₄ P ₂	....	170-171	"	B., 15, 1962	44, 186
Isotolyl benzyl phosphine ..	C ₁₄ H ₁₅ P (?)	C ₂₇ H ₂₈ P ₂	....	187	"	B., 15, 1963	"

10. CHAs, CHSb, and CHBi.

Trimethylarsine	AsMe ₃	C ₃ H ₉ As	b. 100	Liquid	Cahours	C. R., 49, 87	i., 410
"	"	"	120	....	Schorlemmer	Carb. compounds, 98	
Dimethylarsine (cacodyl) ...	Me ₂ As.AsMe ₂	C ₄ H ₁₂ As ₂	170	s. 6	Bunsen	A., 42, 14	i., 403
Triethylarsine	AsEt ₃	C ₆ H ₁₅ As	140-180 p. d. (736)	....	Landolt	J., 6, 492 ; A., 89, 322	i., 398
Phenyldimethylarsine	Ph.AsMe ₂	C ₃ H ₁₁ As	200	....	Michaelis and Link	A., 207, 205	42, 305
Diethylarsine (ethylcacodyl)	Et ₂ As.AsEt ₂	C ₃ H ₂₀ As ₂	185-190	....	Landolt	J., 6, 491 ; A., 89, 319 ; 92, 365	
Phenyldiethylarsine	Ph.AsEt ₂	C ₁₀ H ₁₅ As	240	Liquid	Michaelis	B., 10, 626 ; A., 201, 212	32, 452
Arsenobenzene	Ph.As : As.Ph	C ₁₂ H ₁₀ As ₂	....	196	Michaelis & Schulte	B., 14, 912	40, 723
Diphenylmethylarsine	AsPh ₂ Me	C ₁₃ H ₁₃ As	306	....	Michaelis and Link	A., 207, 199	42, 305
Dipheylethylarsine	AsPh ₂ Et	C ₁₄ H ₁₅ As	320 in CO ₂		"	A., 207, 196	"
"	"	"	305	Liquid	La Coste & Michaelis	B., 11, 1886	36, 162
Triphenylarsine	AsPh ₃	C ₁₈ H ₁₅ As	....	58	"	A., 201, 237	38, 397
"	"	"	a. 360 in CO ₂	58-59	"	B., 11, 1887	36, 162
Arsenonaphthalene	C ₁₀ H ₇ .As : As.C ₁₀ H ₇	C ₂₀ H ₁₄ As ₂	....	221	Michaelis & Schulte	B., 15, 1954	44, 187
Tritolylarsine	As(C ₆ H ₄ Me) ₃ =(1.4) ₃	C ₂₁ H ₂₁ As	....	129-130	La Coste & Michaelis	B., 11, 1889	36, 163
"	"	"	....	130	"	A., 201, 252	38, 397
"	"	"	....	145	La Coste	A., 208, 26	40, 905
Diphenylarsine (phenyl-cacodyl)	Ph ₂ As.AsPh ₂	C ₂₄ H ₂₀ As ₂	....	135	Michaelis & Schulte	B., 15, 1954	44, 187
Trimethylstibine	SbMe ₃	C ₃ H ₉ Sb	....	Liquid	Landolt	A., 78, 91	i., 344
"	"	"	80.6	....	"	J., 14, 569	
Tetramethylstibine	SbMe ₄	C ₄ H ₁₂ Sb (?)	86-96	C ₄ H ₁₂ Sb ₂ (?)	Buckton	J. [1860], 374	13, 120
Pentamethylstibine	SbMe ₅	C ₅ H ₁₅ Sb	96-100	....	"	"	"
Triethylstibine	SbEt ₃	C ₆ H ₁₅ Sb	158.5	l. 29	Löwig & Schweitzer	J., 3, 471	i., 341
Pentaethylstibine	SbEt ₅	C ₁₀ H ₂₅ Sb	96-100	....	Buckton	J. [1860], 374	13, 120
Triisoamylstibine	Sb(CH ₂ .CH ₂ .CHMe ₂) ₃	C ₁₅ H ₃₃ Sb	....	Liquid	Berle	J. p., 65, 385	i., 340
Triphenylstibine	SbPh ₃	C ₁₈ H ₁₅ Sb	....	48	Michaelis and Reese	B., 15, 2876	44, 327
Diisoamylstibine	(C ₅ H ₁₁) ₂ Sb.Sb(C ₅ H ₁₁) ₂	C ₂₀ H ₄₄ Sb ₂	....	Liquid	Berle	J. p., 65, 385	i., 340
Triethylbismuthine	BiEt ₃	C ₆ H ₁₅ Bi	d. 50-60	Liquid	Breed ; Dünhaupt	A., 82, 106 ; 92, 372	

11. CClBr, CClO, CClS, and CCIN.

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Tribromchlormethane	....	CClBr ₃	....	70	Bolas and Groves	24, 779	vii., 324
Trichlorbrommethane	....	CCl ₃ Br	104.3 (757.9)	Liquid	Paternò	G. I., 1, 593	25, 232; vii., 258
"	....	"	104	....	"	B., 5, 289	"
"	....	"	104	....	Friedel and Silva	J. F. P., 5, 99	25, 888
"	....	"	104	....	"	B. S. [2], 17, 538	"
"	....	"	104.07 (760)	Liquid	Thorpe	....	37, 203
Chlortribromethylene	.... CBr ₂ :CBrCl	C ₂ ClBr ₃	203-205 (734)	34	Denzel	B., 12, 2208	38, 228
Chlorpentabromethane	.... CBr ₃ .CBr ₂ Cl	C ₂ ClBr ₅	....	170 d.	"	B., 12, 2207	"
<i>α</i> -Dichlordibromethylene	.... CBr ₂ :CCl ₂	C ₂ Cl ₂ Br ₂	a. 160; <i>abt.</i> 194	s. — 20	"	B., 11, 1741	38, 214
"	....	"	....	s. — 16	Burgoin	C. R., 81, 48	28, 1246
"	....	"	143-160	....	Paternò	J. [1871], 512	"
<i>α</i> -Dichlortetrabromethane	.... CBr ₃ .CBrCl ₂	C ₂ Cl ₂ Br ₄	....	180 d.	Denzel	B., 12, 2207	38, 228
Tetrachlordibromethane	.... CCl ₃ .CClBr ₂	C ₂ Cl ₄ Br ₂	....	solid	Paternò	G. I., 1, 593	vii., 258
"	.... CCl ₂ Br.CCl ₂ Br	"	....	....	Burgoin	B. S., 24, 114	"
Carbon oxychloride (carbonyl chloride, phosgene)	CO:Cl ₂	CCl ₂ O	8.2 c. (756.5)	....	Emmerling and Lengyel	B., 2, 547; Z. C., 13, 189	"
"	"	"	8.0	....	Henry	A. S. S. B.	"
Trichloracetyl chloride	.... CCl ₃ .COCl	C ₂ Cl ₄ O	118	....	Gal	C. R., 76, 1019	28, 746; vii., 19
"	....	"	118 c. (758)	....	Thorpe	....	37, 189
"	....	"	118	....	Friederici	B., 11, 1971	"
"	....	"	118	....	Hübner	J. [1861], 437	vi., 22
"	....	"	116-118	....	Bergomoletz	B. S. [2], 34, 330	40, 401
"	....	"	118	....	Malaguti	A. C. [3], 16, 57	i., 883
Tetrachlormethylic formate	.... Cl.COO.CCl ₃	C ₂ Cl ₄ O ₂	180-185	....	Cahours	J., 1, 676; A., 64, 315	ii., 695
Hexachlormethyl oxide	.... CCl ₃ .O.CCl ₃	C ₂ Cl ₅ O	a. 100	....	Regnault	A. C. [2], 71, 403	"
Hexachloracetone	.... CCl ₃ .CO.CCl ₃ <i>cf.</i> C ₆ Cl ₁₀ O ₂	C ₃ Cl ₆ O	200-201	....	Plantamour	B. J., 26, 428	i., 30
"	....	"	204	....	Cloëz	A., 122, 120	i., 996
Hexachlorethylic formate	....	C ₃ Cl ₆ O ₂	200	....	"	A. C. [3], 17, 299	i., 24
"	....	"	200	....	"	A. C. [3], 17, 312	"
Hexachlormethylic carbonate	.... (CCl ₃) ₂ CO ₃	C ₃ Cl ₆ O ₃	....	78-79	Counciler	B., 13, 1698	40, 251
Dichlormaleic anhydride	.... C ₂ Cl ₂ :(CO) ₂ :O	C ₄ Cl ₂ O ₃	....	119.5	Kander	J. p. [2], 28, 191	48, 40
PCl ₅ on succinic chloride	....	C ₄ Cl ₅ O	199-215	Liquid	"	"	"
Chloroxethose	....	"	210	....	Malaguti	A. C. [3], 16, 20	i., 924
Hexachloracetic anhydride	.... (CCl ₃ .CO) ₂ O	C ₄ Cl ₆ O ₃	223	Liquid	Clermont	C. R., 86, 337	34, 402
"	....	"	222-224	Liquid	Buckney & Thomsen	B., 10, 699	"
Octochlorethylic acetate	.... CCl ₃ .COO.CCl ₂ .CCl ₃	C ₄ Cl ₈ O ₂	245	....	Leblanc	A. C. [3], 10, 202	i., 22
Decachlorethyl oxide	.... (CCl ₃ .CCl ₂) ₂ O	C ₄ Cl ₁₀ O	<i>abt.</i> 300	69	Regnault	A. C. [2], 71, 394	ii., 541
"	....	"	300 d.	69	Malaguti	A. C. [3] 16, 14	"
From sodium citrate	....	C ₆ Cl ₁₀ O ₂	190	....	....	....	i., 996
"	....	"	200-201	....	Plantamour	B. J., 26, 428	"
Decachlorethylic carbonate	.... (CCl ₃ .CCl ₂) ₂ CO ₃	C ₆ Cl ₁₀ O ₃	....	85-86; 86-88	Malaguti	A., 47, 294; B. J., 26, 759	i., 800
Perchlorphenylene oxide	....	C ₆ Cl ₄ O	C ₁₂ Cl ₈ O ₂ ?	<i>abt.</i> 320	Merz and Weith	B., 5, 461	25, 702
Hexachlorphenol	.... C ₆ Cl ₅ .OCl	C ₆ Cl ₆ O	....	46	Benedikt & Schmidt	M. C., 4, 604	44,
"	....	"	....	106	Langer	B., 15, 1331	"
" dichloride	.... C ₆ Cl ₆ .OCl + Cl ₂	C ₆ Cl ₈ O	....	102	Benedikt & Schmidt	M. C., 4, 604	"
Decachlorethylic oxalate	.... COO(C ₂ Cl ₅).COO(C ₂ Cl ₅)	C ₆ Cl ₁₀ O ₄	....	144 d.	Malaguti	A. C. [2], 74, 299	iv., 270
Tetrachlorphthalic anhydride	.... C ₆ Cl ₄ .CO.O.CO=1.2	C ₈ Cl ₄ O ₃	....	245	Græbe	A., 149, 20	"
Chloroxethide	....	C ₈ Cl ₁₀ O ₇	200	....	Malaguti	A. C. [2], 74, 308	iv., 271
Tetradecachlorethylic succinate	.... COO(C ₂ Cl ₅).(CCl ₂) ₂ .COO (C ₂ Cl ₅)	C ₈ Cl ₁₄ O ₄	....	116-120	Cahours (?)	A., 47, 297 (?)	"
"	....	"	200-201	....	Plantamour	B. J., 26, 428	i., 996

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Mellityl hexachloride	$C_6(CO.Cl)_6$	$C_{12}Cl_6O_6$	sb. 240	190	Claus and Poppe	B., 10, 561	
Octochlorophenylene oxide	$C_6Cl_4 : O_2 : C_6Cl_4$	$C_{12}C_3O_2$ (?)	a. Hg	abt. 320	Merz and Weith	B., 5, 461	25, 702 ; vii., 906
Carbonsulphochloride (thio-carbonyl chloride)	$CS : Cl_2$	CCl_2S	70	....	Kolbe	A., 45, 45	i., 778
" "	" "	" "	71-74	....	Rathke	A. 167, 204	
" "	" "	(") _n	....	112·5	"	A., 167, 206	
Tetrachlormethylmercaptane	$CCl_3.SCl$	CCl_4S	146-147 c.	....	"	B., 3, 859	vii., 266
" "	" "	" "	146·5-148 c.	....	"	A., 167, 200	
Chlorothioform ....	....	$C_2Cl_2S_3$	abt. 250	....	Hartley	20, 23	vi., 446
Hexachlormethyl sulphide	$CCl_3.S.CCl_3$	C_2Cl_6S	156-160	....	Riche	A. C. [3], 43, 288 ; A., 92, 355	
Hexachlormethyl trisulphide	$CCl_3.S_3.CCl_3$	"	....	57·4	Rathke	A., 167, 209	
Cyanogen chloride	$N : C.Cl$	$CClN$	c.—12 to—15	s. —18	....	....	ii., 279
" "	"	"	0 (4 ats.)	....	....	....	ii., 278
" "	"	"	12·66 (760)	s. —7·4	Regnault	M. A. S., 26, 658 ; J. [1863], 70, 74	vi., 538
" "	"	"	15·5	....	Salet	B. S. [2], 4, 105	26, 1129
" dichloride ....	....	$C_2Cl_2N_2$	15·5	s. 5-6	Wurtz	A., 64, 308 ; 79, 280	ii., 280
Trichloracetoneitril	$CCl_3.CN$	C_2Cl_3N	81	....	Dumas and Leblanc	J., 1, 593	i., 33
" " ....	....	"	83-84	....	Bisschopineuk	B., 6, 732 ; B. S., 20, 450	26, 1128
" " ....	....	( " )_n	....	91-92	Weddiger	J. p. [2], 28, 188	46, 35
Cyanuric chloride ....	....	$C_3Cl_3N_3$	190	140	Serullas	A. C. [3], 35, 291	ii., 280
" " ....	....	"	....	140	Gauthier	B. S. [2], 5, 403	vi., 538
Pentachlor-benzonitril	$C_6Cl_5.CN$	C_7Cl_5N	....	210	Moe and Mayer	B., 16, 2886	46, 589
? " ....	....	$C_{10}Cl_{22}N_4$	abt. 85	....	Bouis	A. C. [3], 20, 446	ii., 282
Perchlortriphenylamine	$(C_6Cl_5)_3N$	$C_{18}Cl_{15}N$	....	n. f. 270	Ruoff	B., 9, 1494	31, 300

12. CBrI, CBrO, CBrS, and CBrN.

?	....	....	....	....	C ₄ Br ₃ I ₃	....	100	Berend	A., 135, 260	vi., 34	
Carboxybromide (carbonyl bromide)					CO : Br ₂	CBr ₂ O	12-30	Liquid	Emmerling	B., 13, 874	38, 627
Tribromacetyl bromide				CBr ₃ .CO.Br	C ₂ Br ₄ O	220-225	....	Gal	B. S., 5, 172 ; A., 129, 56	vi., 21
Hexabromacetone			CBr ₃ .CO.CBr ₃	C ₃ Br ₆ O	....	107-109	Weidel and Gruber	B., 10, 1146	32, 779
"			"	"	108-109	Herzig	M. C., 3, 831	44, 464
Tribrommethylic tribromacetate					CBr ₃ .COOCBr ₃	C ₃ Br ₆ O ₂	....	86-87	Steiner	B., 7, 505	27, 886
Dibromfumaric anhydride				CO.CBr.CBr.CO.O	C ₄ Br ₂ O ₃	....	95-120	Limpricht	A., 165, 253	vii., 828 ; 26, 625
Tetrabromfurfurane....	C ₄ Br ₄ O	....	63	Hill	B., 16, 1132	44, 912
Tetrabromquinone (bromanil)					C ₆ Br ₄ O ₃	....	sb. a. 250	Losanitsch	B., 15, 474	
"		"			"	sb. 270	....	A.	
Hexabromphenol			C ₆ Br ₅ .OBr	C ₆ Br ₅ O	....	128	Benedikt	M. C., 1, 363	
Hexabromresorcinol....				C ₆ Br ₄ (OBr) ₂ = 1.3	C ₆ Br ₆ O ₂	....	136	"	M. C., 1, 366	
Pentabromethylic pentabromacetacetate					CBr ₃ .CO.CBr ₂ .COO(C ₂ Br ₅)	C ₆ Br ₁₀ O ₃	....	79-80	Wedel	A., 219, 71	46, 835
Carbotrithiohexabromide	C ₂ Br ₆ S ₃	....	125	Hell and Urech	B., 15, 276, 987 ; 16, 1144	42, 706 ; 44, 907
Tetrabromthiophene....				CBr : CBr.S.CBr : CBr	C ₄ Br ₄ S	326 c.	112	Meyer and Keis	B., 16, 2172	46, 45

Name.	Constitution.	Formula.	Boiling Point.	Melting Point.	Authority.	Reference.	Watts' Dict. & J. Ch. Soc.
Cyanogen bromide	N: CBr	CBrN	....	4	Löwig	B. J., 8, 94	ii., 277
" " ....	"	"	....	16	Serullas	A. C. [2], 34, 100	"
" "	"	"	a. 40	....	Bineau	A. C. [2], 68, 425	"
Cyanuric bromide ....	....	C ₃ Br ₃ N ₃	....	a. 300	Eghis	Z. C. [2], 5, 376 ; B., 2, 160	vi., 538
Pentabrombenzonitril	C ₆ Br ₅ .CN	C ₇ Br ₅ N	....	a. 300	Merz and Weith	B., 16, 2892	46, 588

13. COS, CON, CSN, and CNP.

Carbon oxysulphide ....	....	COS	c. 0 (12·5 ats.)	....	Ilosvay	B. S. [2], 37, 294	44, 43
" " ....	....	"	c. 3·8 (15·ats.)	....	"	"	"
" " ....	....	"	c. 10·7 (17·5 ats.)	....	"	"	"
" " ....	....	"	c. 12 (19·6 ats.)	....	"	"	"
" " ....	....	"	c. 17 (21·5 ats.)	....	"	"	"
" " ....	....	"	c. 39·8 (44· ats.)	....	"	"	"
" " ....	....	"	c. 41·2 (45· ats.)	....	"	"	"
" " ....	....	"	c. 63 (59· ats.)	....	"	"	"
" " ....	....	"	c. 69 (65· ats.)	....	"	"	"
" " ....	....	"	c. 74·6 (74 ats.)	....	"	"	"
" " ....	....	"	c. 85 (80 ats.)	....	"	"	"
" " ....	....	"	c.t. 105°	....	"	"	"
Tetranitromethane	C(NO ₂) ₄	CO ₈ N ₄	126	13	Schischkoff	A., 119, 247	iv., 110
Trinitroacetonitril	C(NO ₂) ₃ .CN	C ₂ O ₅ N ₄	60 in current of air ; d. 220	41·5	"	A. C. [3], 49, 310 ; A., 101, 213	iv., 111
Cyanogen sulphide	SCy ₂	C ₂ SN ₂	....	60	Linnemann	A., 120, 36	
Phosphorus tricyanide	PCy ₃	C ₃ N ₃ P	200–203	Wehrhane & Hübner	A., 128, 254 ; 132, 279	iv., 517

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